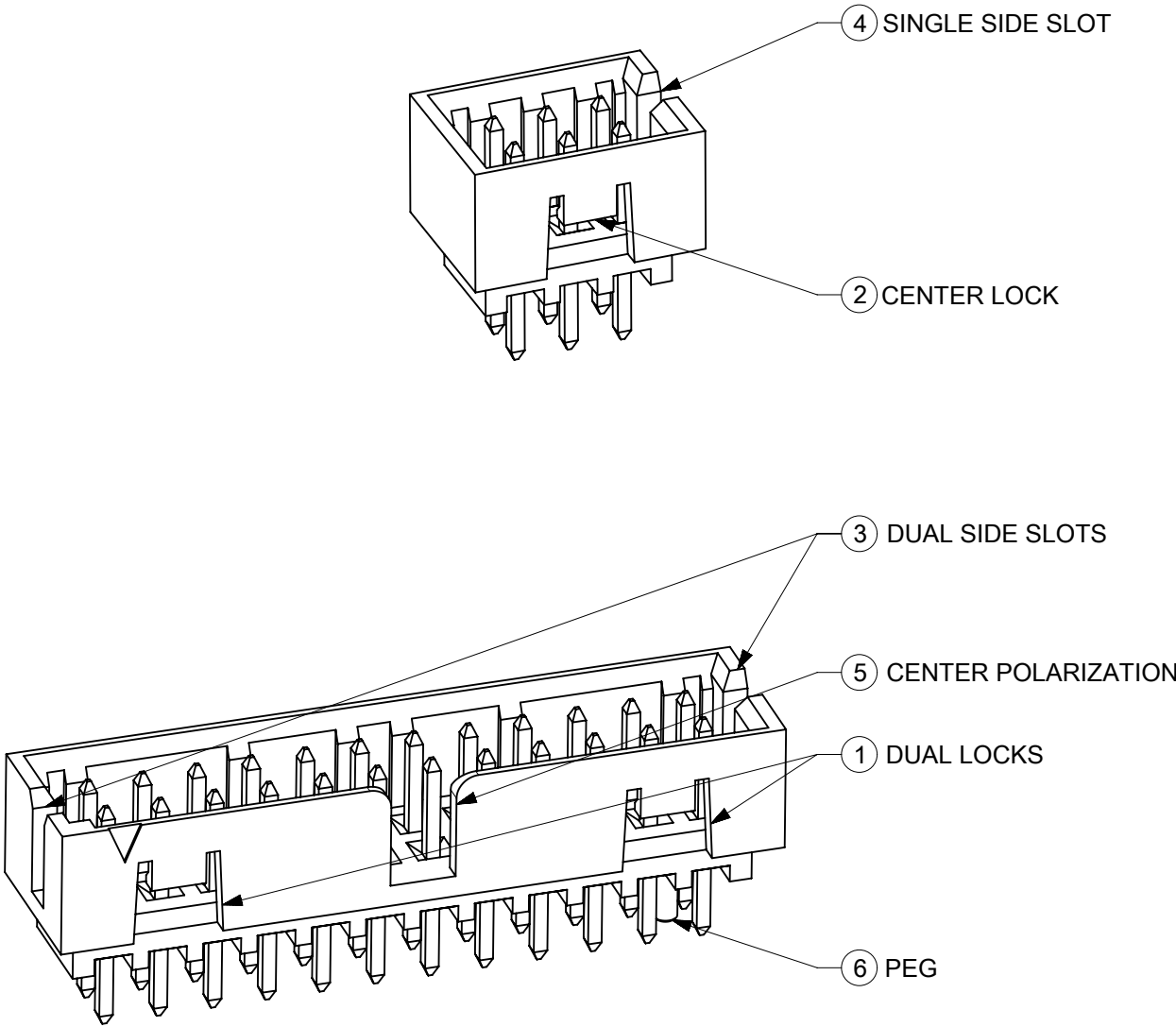


FEATURES SELECTION GUIDE



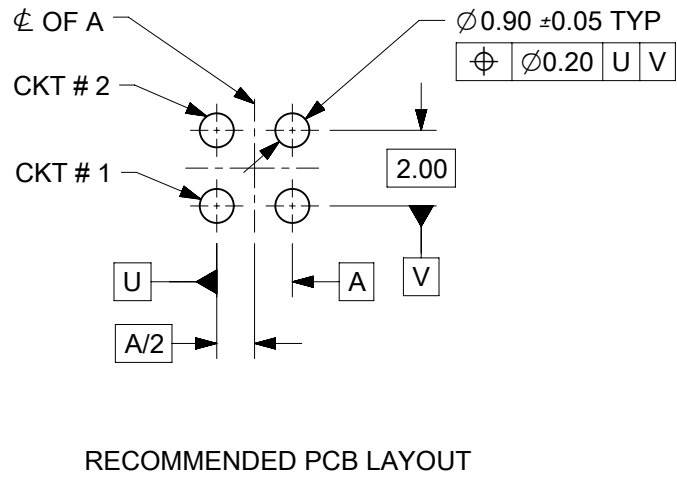
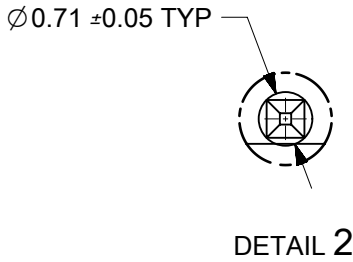
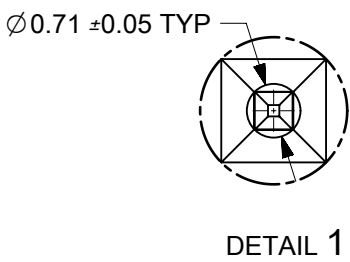
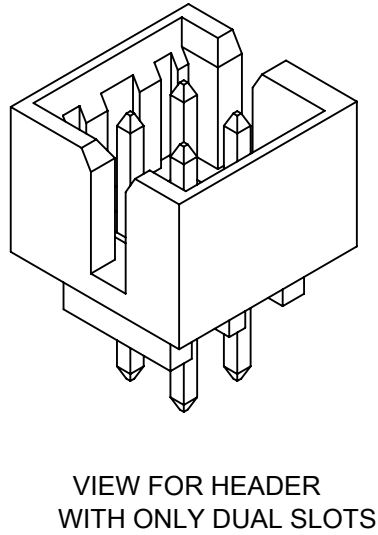
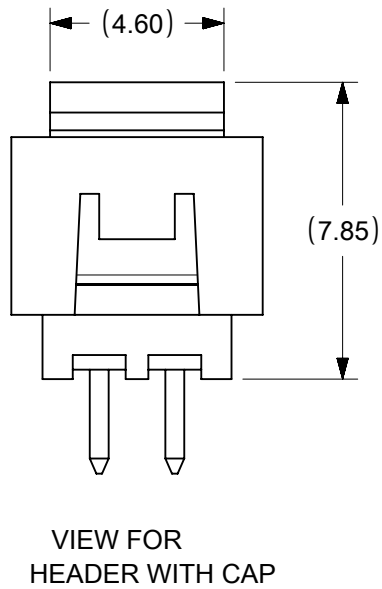
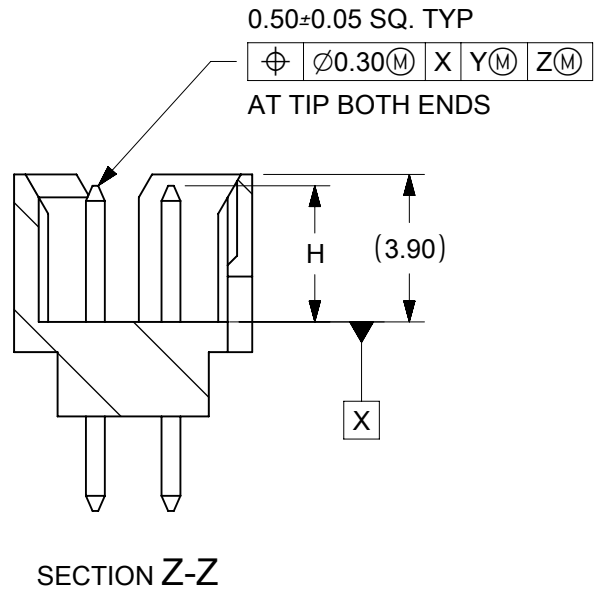
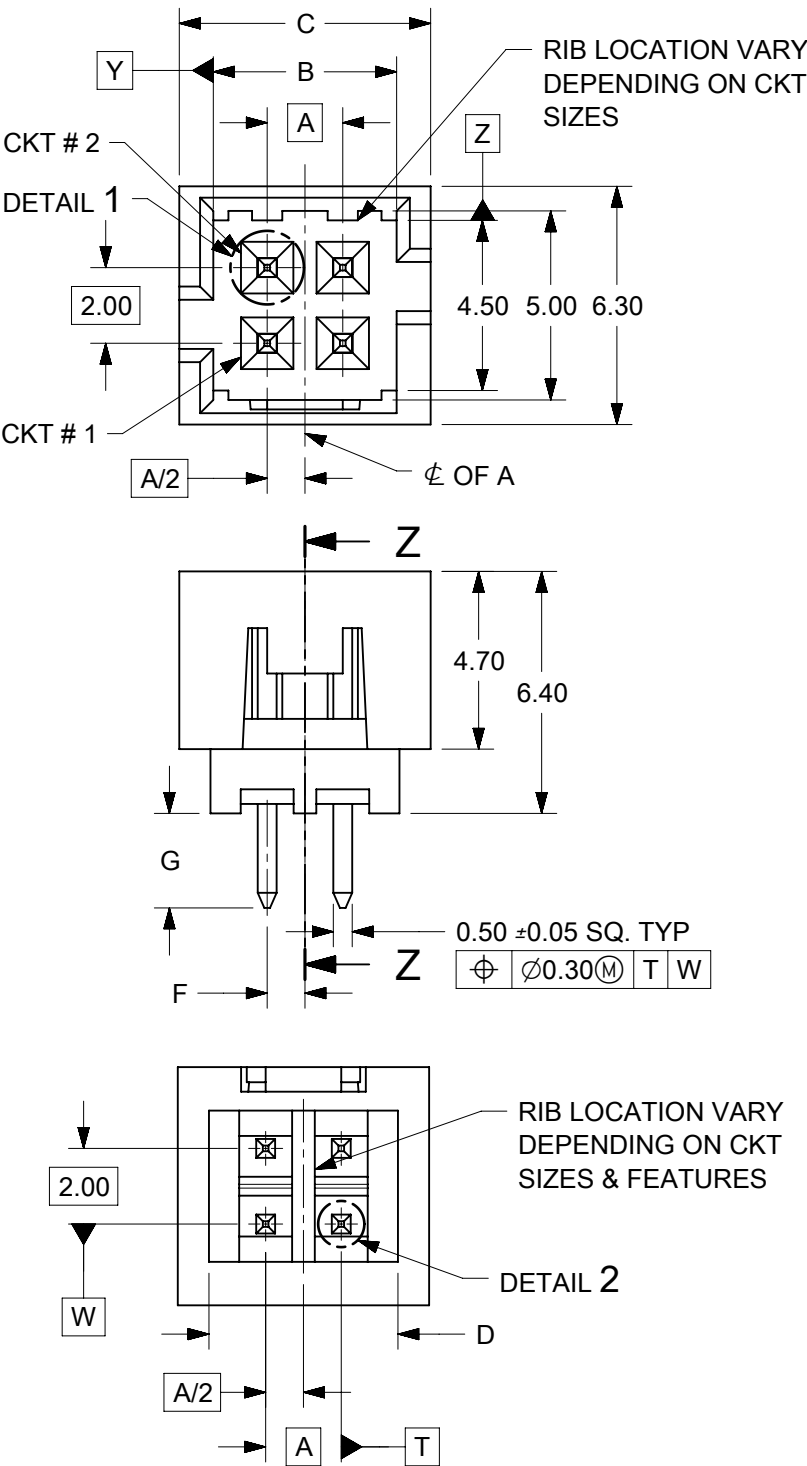
| FEATURES     |                |          |            |          |                       |       |          |
|--------------|----------------|----------|------------|----------|-----------------------|-------|----------|
| CIRCUIT SIZE | FRICTION LOCKS |          | SIDE SLOTS |          | 5 CENTER POLARIZATION | 6 PEG | SHEET NO |
|              | 1 DUAL         | 2 CENTER | 3 DUAL     | 4 SINGLE |                       |       |          |
| 4            | N.A            | N.A      | YES        | N.A      | N.A                   | N.A   | 2 - 3    |
|              | N.A            | YES      | YES        | N.A      | N.A                   | N.A   |          |
|              | N.A            | YES      | N.A        | YES      | N.A                   | N.A   |          |
| 6            | N.A            | N.A      | YES        | N.A      | N.A                   | N.A   | 4 - 5    |
|              | N.A            | N.A      | YES        | N.A      | N.A                   | YES   |          |
|              | N.A            | YES      | YES        | N.A      | N.A                   | N.A   |          |
|              | N.A            | YES      | YES        | N.A      | N.A                   | YES   |          |
|              | N.A            | YES      | N.A        | YES      | N.A                   | N.A   |          |
|              | N.A            | YES      | N.A        | YES      | N.A                   | YES   |          |
|              | N.A            | N.A      | YES        | N.A      | YES                   | N.A   |          |
| 8 TO 12      | N.A            | N.A      | YES        | N.A      | YES                   | N.A   | 6 - 8    |
|              | N.A            | N.A      | YES        | N.A      | YES                   | YES   |          |
|              | N.A            | YES      | YES        | N.A      | N.A                   | N.A   |          |
|              | N.A            | YES      | YES        | N.A      | N.A                   | YES   |          |
|              | N.A            | YES      | N.A        | YES      | N.A                   | N.A   |          |
|              | N.A            | YES      | N.A        | YES      | N.A                   | YES   |          |
| 14 TO 50     | YES            | N.A      | YES        | N.A      | YES                   | N.A   | 9 - 13   |
|              | YES            | N.A      | YES        | N.A      | YES                   | YES   |          |

PACKAGING SPECIFICATION TABLE

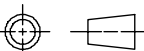
|                                  |            |              |
|----------------------------------|------------|--------------|
| TAPE AND REEL PACKAGING          |            | PK-87831-300 |
| TUBE STANDARD PACKAGING          |            | PK-87831-001 |
| TUBE NON-STANDARD PACKAGING FOR: |            | PK-87831-002 |
| 87831-0419                       | 87831-0645 |              |
| 87831-5141                       | 87831-5119 |              |
| 87831-0443                       | 87831-1011 |              |
| 87831-5241                       | 87831-1420 |              |
| 87831-5242                       |            |              |
| 87831-0643                       |            |              |

|                                                                                                                                               |  |                                        |                                          |  |    |                 |               |                        |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|------------------------------------------|--|----|-----------------|---------------|------------------------|-----|-------------------------------------------------------------------------------------------------|-----|----------|---------|----------|--------------------------|--------------|--|--|--|
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                        |                                          |  |    |                 |               |                        |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |
| SHT5, 10 ADD OPTIONS<br>EC NO: 168777<br>DRWN: GMENARLY<br>CHK'D: SCHEONG<br>REV APPR: KHLIM                                                  |  | 2017/09/08<br>2017/12/01<br>2018/01/02 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |  |    | DIMENSION UNITS |               | SCALE                  |     | <div>molex®</div> <div>MILLIGRID<br/>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br/>HEADER</div> |     |          |         |          |                          |              |  |  |  |
|                                                                                                                                               |  |                                        |                                          |  |    | MM              |               | NTS                    |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |
|                                                                                                                                               |  |                                        | 4 PLACES ± ±                             |  |    | DRWN BY         |               | DATE                   |     |                                                                                                 |     |          |         |          | PRODUCT CUSTOMER DRAWING |              |  |  |  |
|                                                                                                                                               |  |                                        |                                          |  |    | GMENARLY        |               | 2015/04/15             |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |
|                                                                                                                                               |  |                                        | 3 PLACES ± ±                             |  |    | CHK'D BY        |               | DATE                   |     | SERIES MATERIAL NUMBER CUSTOMER                                                                 |     |          |         |          |                          |              |  |  |  |
|                                                                                                                                               |  |                                        |                                          |  |    | CGOH            |               | 2015/06/29             |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |
|                                                                                                                                               |  |                                        | 2 PLACES ± 0.2 ±                         |  |    | APPR BY         |               | DATE                   |     | 87831 SEE TABLE GENERAL MARKET                                                                  |     |          |         |          |                          |              |  |  |  |
|                                                                                                                                               |  |                                        |                                          |  |    | KHLIM           |               | 2015/06/29             |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |
|                                                                                                                                               |  |                                        | 1 PLACES ± ±                             |  |    | DRAWING SIZE    |               | THIRD ANGLE PROJECTION |     | DOCUMENT NUMBER                                                                                 |     | DOC TYPE |         | DOC PART |                          | SHEET NUMBER |  |  |  |
|                                                                                                                                               |  |                                        |                                          |  |    |                 |               |                        |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |
| 0 PLACES ± ±                                                                                                                                  |  |                                        | ANGULAR TOL ± 3.0                        |  | A3 |                 | SD-87831-0001 |                        | PSD |                                                                                                 | 001 |          | 1 OF 13 |          |                          |              |  |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                    |  |                                        |                                          |  |    |                 |               |                        |     |                                                                                                 |     |          |         |          |                          |              |  |  |  |

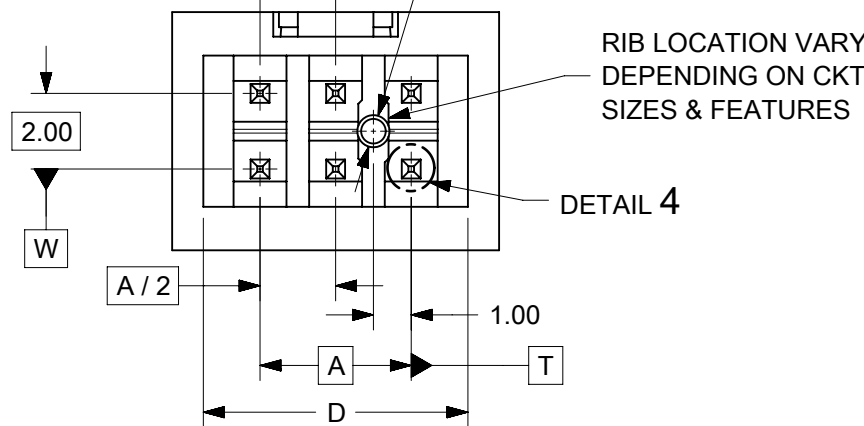
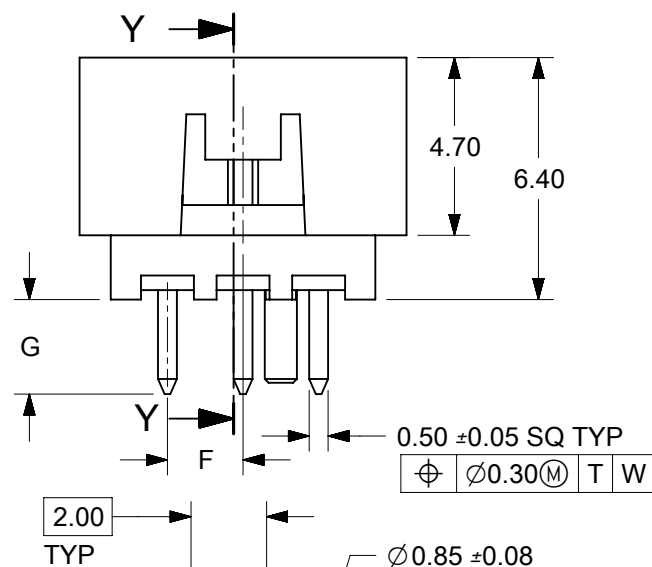
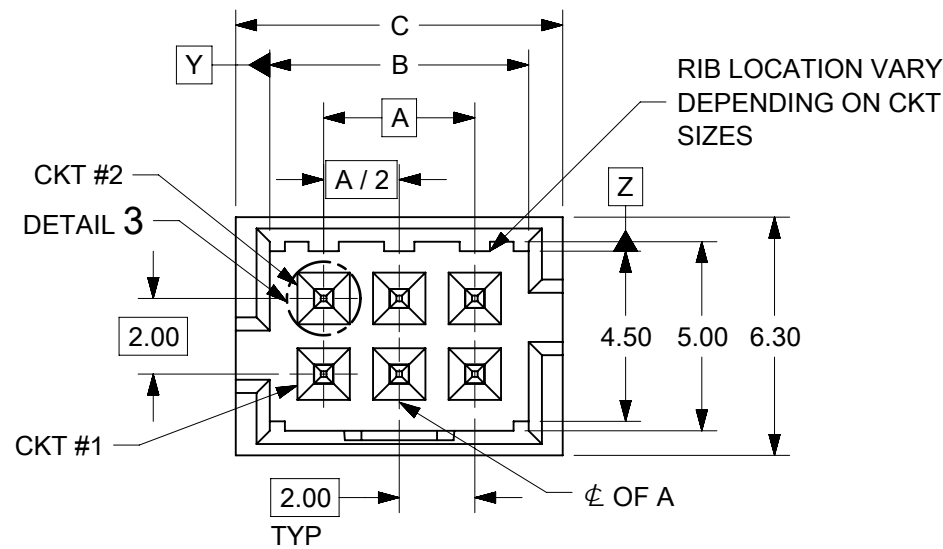
4 CIRCUITS



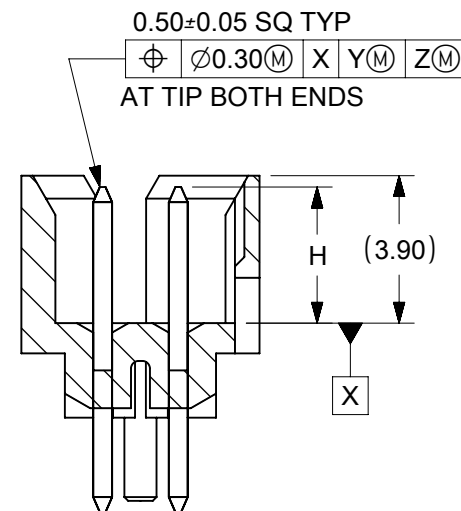
- NOTES:
1. MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50mm SQ. PHOSPHOR BRONZE
  2. FINISHES: REFER TO PLATING OPTIONS
  3. PRODUCT SPECIFICATION: PS-87831-027
  4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
  5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES  
AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE:  
79107 (GOLD PLATED), 78787 (TIN PLATED)

| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                        |                                                            |       |      |                 |  |                                                                                       |  |                                                                  |  |           |          |                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------|-------|------|-----------------|--|---------------------------------------------------------------------------------------|--|------------------------------------------------------------------|--|-----------|----------|----------------|--|
| SHT5, 10 ADD OPTIONS<br>EC NO: 168777<br>DRWN: GMENARLY<br>CHK'D: SCHEONG<br>REV APPR: KHLIM                                                  | 2017/09/08<br>2017/12/01<br>2018/01/02 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       |      | DIMENSION UNITS |  | SCALE                                                                                 |  | <div>molex®</div>                                                |  |           |          |                |  |
|                                                                                                                                               |                                        |                                                            | MM    | INCH | MM              |  | NTS                                                                                   |  |                                                                  |  |           |          |                |  |
|                                                                                                                                               |                                        | 4 PLACES                                                   | ±     | ±    | DRWN BY         |  | DATE                                                                                  |  | MILLIGRID<br>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br>HEADER |  |           |          |                |  |
|                                                                                                                                               |                                        |                                                            |       |      | GMENARLY        |  | 2015/04/15                                                                            |  |                                                                  |  |           |          |                |  |
|                                                                                                                                               |                                        | 3 PLACES                                                   | ±     | ±    | CHK'D BY        |  | DATE                                                                                  |  | PRODUCT CUSTOMER DRAWING                                         |  |           |          |                |  |
|                                                                                                                                               |                                        |                                                            |       |      | CGOH            |  | 2015/06/29                                                                            |  |                                                                  |  |           |          |                |  |
|                                                                                                                                               |                                        | 2 PLACES                                                   | ± 0.2 | ±    | APPR BY         |  | DATE                                                                                  |  | SERIES<br>MATERIAL NUMBER<br>CUSTOMER                            |  |           |          |                |  |
|                                                                                                                                               |                                        |                                                            |       |      | KHLIM           |  | 2015/06/29                                                                            |  |                                                                  |  |           |          |                |  |
|                                                                                                                                               |                                        | 1 PLACES                                                   | ±     | ±    | DRAWING SIZE    |  | THIRD ANGLE PROJECTION                                                                |  | 78731                                                            |  | SEE TABLE |          | GENERAL MARKET |  |
|                                                                                                                                               |                                        |                                                            |       |      | A3              |  |  |  |                                                                  |  |           |          |                |  |
| A12                                                                                                                                           | REV                                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |      |                 |  |                                                                                       |  | DOCUMENT NUMBER                                                  |  | DOC TYPE  | DOC PART | SHEET NUMBER   |  |
|                                                                                                                                               |                                        |                                                            |       |      |                 |  |                                                                                       |  | SD-87831-0001                                                    |  | PSD       | 001      | 2 OF 13        |  |

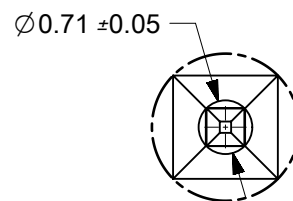




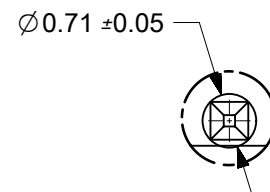
## 6 CIRCUITS



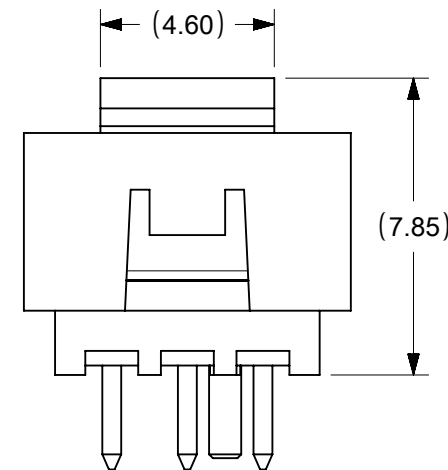
SECTION Y-Y



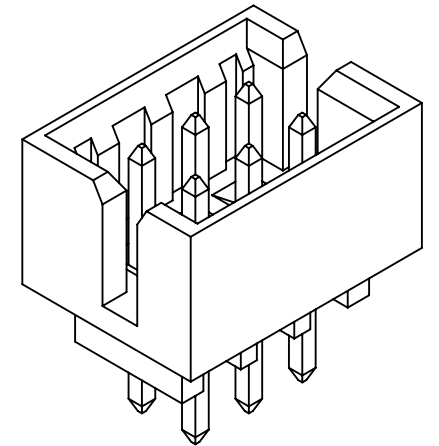
DETAIL 3



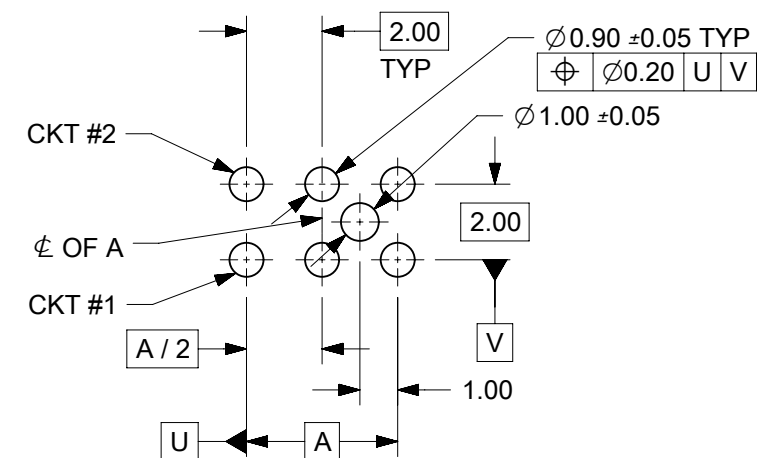
DETAIL 4



VIEW FOR  
HEADER WITH CAP



VIEW FOR HEADER WITH  
ONLY DUAL SLOTS

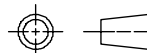


RECOMMENDED PCB LAYOUT

### NOTES:

1. MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50mm SQ PHOSPHOR BRONZE
2. FINISHES: REFER TO PLATING OPTIONS
3. PRODUCT SPECIFICATION: PS-87831-027
4. PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
5. MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES  
AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE:  
79107 (GOLD PLATED), 78787 (TIN PLATED)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

|                                                                                                            |  |                                                            |  |            |            |                                          |      |                                                                                       |                 |            |       |                                                                  |        |                |  |  |  |                 |
|------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|------------|------------|------------------------------------------|------|---------------------------------------------------------------------------------------|-----------------|------------|-------|------------------------------------------------------------------|--------|----------------|--|--|--|-----------------|
| SHT5, 10 ADD OPTIONS<br><br>EC NO: 168777<br>DRWN: GMENARLY<br>CHKD: SCHEONG<br>REV APPR: KHLIM<br><br>A12 |  | 2017/09/08                                                 |  | 2017/12/01 | 2018/01/02 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |      |                                                                                       | DIMENSION UNITS |            | SCALE |                                                                  | molex® |                |  |  |  |                 |
|                                                                                                            |  | MM                                                         |  |            |            |                                          |      |                                                                                       | NTS             |            |       |                                                                  |        |                |  |  |  |                 |
|                                                                                                            |  |                                                            |  |            |            | MM                                       | INCH | DRWN BY                                                                               |                 | DATE       |       | MILLIGRID<br>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br>HEADER |        |                |  |  |  |                 |
|                                                                                                            |  | 4 PLACES                                                   |  |            |            | ±                                        | ±    | GMENARLY                                                                              |                 | 2015/04/15 |       |                                                                  |        |                |  |  |  |                 |
|                                                                                                            |  | 3 PLACES                                                   |  |            |            | ±                                        | ±    | CHK'D BY                                                                              |                 | DATE       |       |                                                                  |        |                |  |  |  |                 |
|                                                                                                            |  | 2 PLACES                                                   |  |            |            | ± 0.2                                    | ±    | CGOH                                                                                  |                 | 2015/06/29 |       |                                                                  |        |                |  |  |  |                 |
|                                                                                                            |  | 1 PLACES                                                   |  |            |            | ±                                        | ±    | APPR BY                                                                               |                 | DATE       |       |                                                                  |        |                |  |  |  |                 |
|                                                                                                            |  | 0 PLACES                                                   |  |            |            | ±                                        | ±    | KHLIM                                                                                 |                 | 2015/06/29 |       | PRODUCT CUSTOMER DRAWING                                         |        |                |  |  |  |                 |
|                                                                                                            |  | ANGULAR TOL ± 3.0                                          |  |            |            | DRAWING SIZE                             |      | THIRD ANGLE PROJECTION                                                                |                 | SERIES     |       |                                                                  |        |                |  |  |  | MATERIAL NUMBER |
|                                                                                                            |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |            |            | A3                                       |      |  |                 | 87831      |       | SEE TABLE                                                        |        | GENERAL MARKET |  |  |  |                 |
| DOCUMENT NUMBER                                                                                            |  |                                                            |  |            |            |                                          |      |                                                                                       |                 | DOC TYPE   |       | DOC PART                                                         |        | SHEET NUMBER   |  |  |  |                 |
| SD-87831-0001                                                                                              |  |                                                            |  |            |            |                                          |      |                                                                                       |                 | PSD        |       | 001                                                              |        | 4 OF 13        |  |  |  |                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |     |              |   |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|--------------|---|------------|----------|------------------------------|---------------------------|--------------------------|-----------------|----------------|--------|------------|--------|---------------------|-----|-----------|-----------|-----|-----|------|------|------|---|
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 8   |              | 7 |            | 6        |                              | 5                         |                          | 4               |                | 3      |            | 2      |                     | 1   |           |           |     |     |      |      |      |   |
| 6 CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     |              |   |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | D          | C   | B            | A | 6          | CKT SIZE | ASSY P/N WITHOUT CAP IN TUBE | ASSY P/N WITH CAP IN TUBE | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS | FRICTION LOCKS |        | SIDE SLOTS |        | CENTER POLARIZATION | PEG | DIMENSION |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |     |              |   |            |          |                              |                           |                          |                 | DUAL           | CENTER | DUAL       | SINGLE |                     |     | A         | B         | C   | D   | E    | F    | G    | H |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0619 | N.A | N.A          | 1 | N.A        | N.A      | YES                          | N.A                       | N.A                      | N.A             | 4.00           | 6.85   | 8.65       | 7.00   | N.A                 | N.A | 2.50      | 3.60±0.20 |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0620 | N.A | N.A          | 2 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0621 | N.A | N.A          | 3 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0636 | N.A | N.A          | 4 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0628 | N.A | N.A          | 2 | N.A        | N.A      | YES                          | N.A                       | N.A                      | YES             |                |        |            |        |                     | N.A | N.A       |           | N.A | N.A | N.A  | N.A  | 2.50 |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0629 | N.A | N.A          | 3 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0641 | N.A | N.A          | 2 | N.A        | YES      | YES                          | N.A                       | N.A                      | N.A             |                |        |            |        |                     | N.A | N.A       |           | N.A | N.A | N.A  | 2.50 |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0642 | N.A | 87831-5552   | 3 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-5241 | N.A | N.A          | 2 | N.A        | YES      | YES                          | N.A                       | N.A                      | N.A             |                |        |            |        |                     | N.A | N.A       | N.A       | N.A | N.A | 2.80 |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-5242 | N.A | N.A          | 3 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-6241 | N.A | N.A          | 2 | N.A        | YES      | YES                          | N.A                       | N.A                      | N.A             |                |        |            |        |                     | N.A | N.A       | N.A       | N.A | N.A | 2.50 |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-6242 | N.A | N.A          | 3 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0643 | N.A | N.A          | 2 | N.A        | YES      | N.A                          | YES                       | N.A                      | N.A             |                |        |            |        |                     | N.A | N.A       | N.A       | N.A | N.A | 2.50 |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0644 | N.A | N.A          | 3 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0645 | N.A | N.A          | 2 | N.A        | YES      | N.A                          | YES                       | N.A                      | N.A             |                |        |            |        |                     | YES | N.A       | N.A       | N.A | N.A | 2.50 |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0646 | N.A | N.A          | 3 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-0632 | N.A | N.A          | 2 | N.A        | YES      | YES                          | N.A                       | N.A                      | YES             |                |        |            |        |                     | N.A | N.A       | N.A       | N.A | N.A | 2.50 |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-5119 | N.A | N.A          | 1 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-5121 | N.A | N.A          | 3 | N.A        | N.A      | YES                          | N.A                       | YES                      | N.A             |                |        |            |        |                     | N.A | N.A       | N.A       | N.A | N.A | 2.50 |      |      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 87831-5136 | N.A | N.A          | 4 |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
| PLATING OPTIONS:<br><br>1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.<br>2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.<br>3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.<br>4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL. |            |     |              |   |            |          |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
| RELEASE STATUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | P1  | RELEASE DATE |   | 02.01.2018 | 09:07:52 |                              |                           |                          |                 |                |        |            |        |                     |     |           |           |     |     |      |      |      |   |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 8   |              | 7 |            | 6        |                              | 5                         |                          | 4               |                | 3      |            | 2      |                     | 1   |           |           |     |     |      |      |      |   |

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SHT5, 10 ADD OPTIONS

EC NO: 168777

DRWN: GMENARLY

CHK'D: SCHEONG

REV APPR: KHLIM

2017/09/08

2017/12/01

2018/01/02

GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

± 0.2

±

1 PLACES

±

±

0 PLACES

±

±

ANGULAR TOL ± 3.0

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS

MM

SCALE

NTS

DRWN BY

DATE

GMENARLY

2015/04/15

CHK'D BY

DATE

CGOH

2015/06/29

APPR BY

DATE

KHLIM

2015/06/29

DRAWING SIZE

THIRD ANGLE PROJECTION

A3

87831

SEE TABLE

GENERAL MARKET

DOCUMENT NUMBER

DOC TYPE

DOC PART

SHEET NUMBER

SD-87831-0001

PSD

001

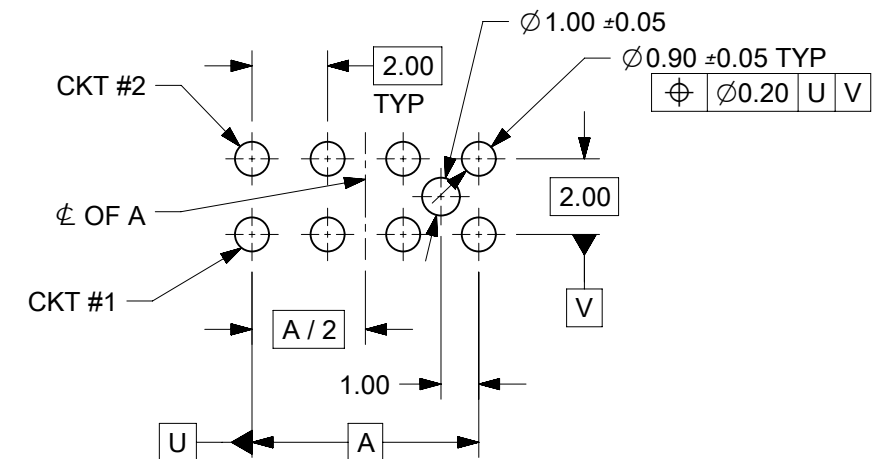
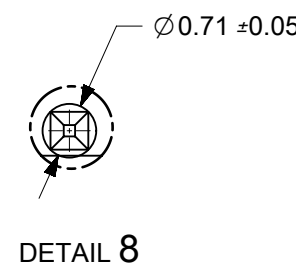
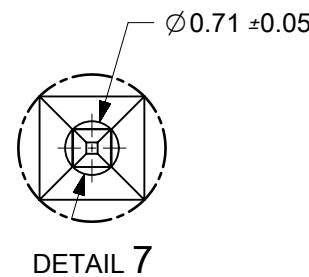
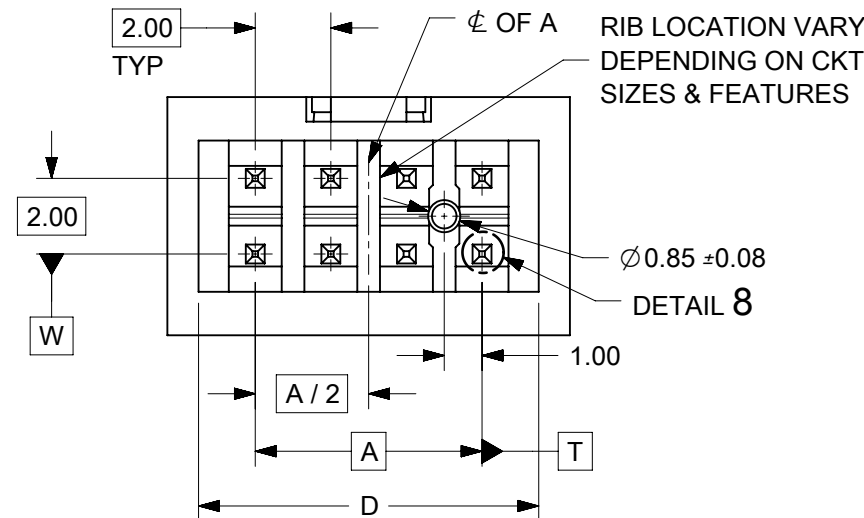
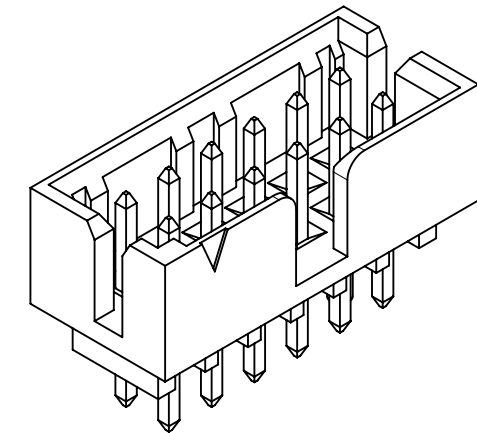
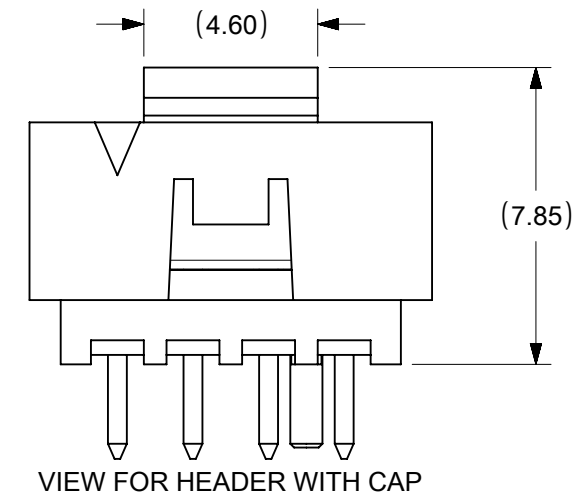
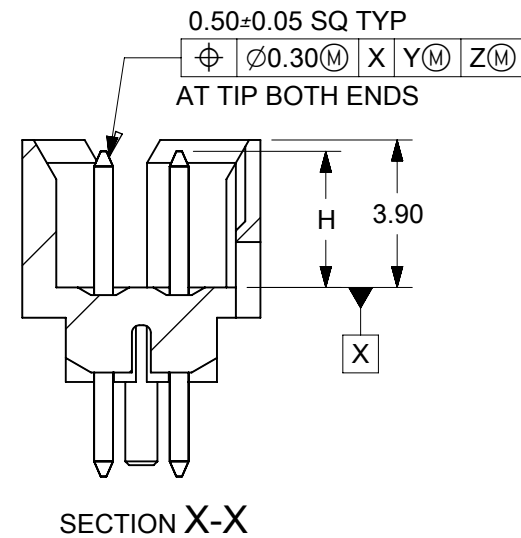
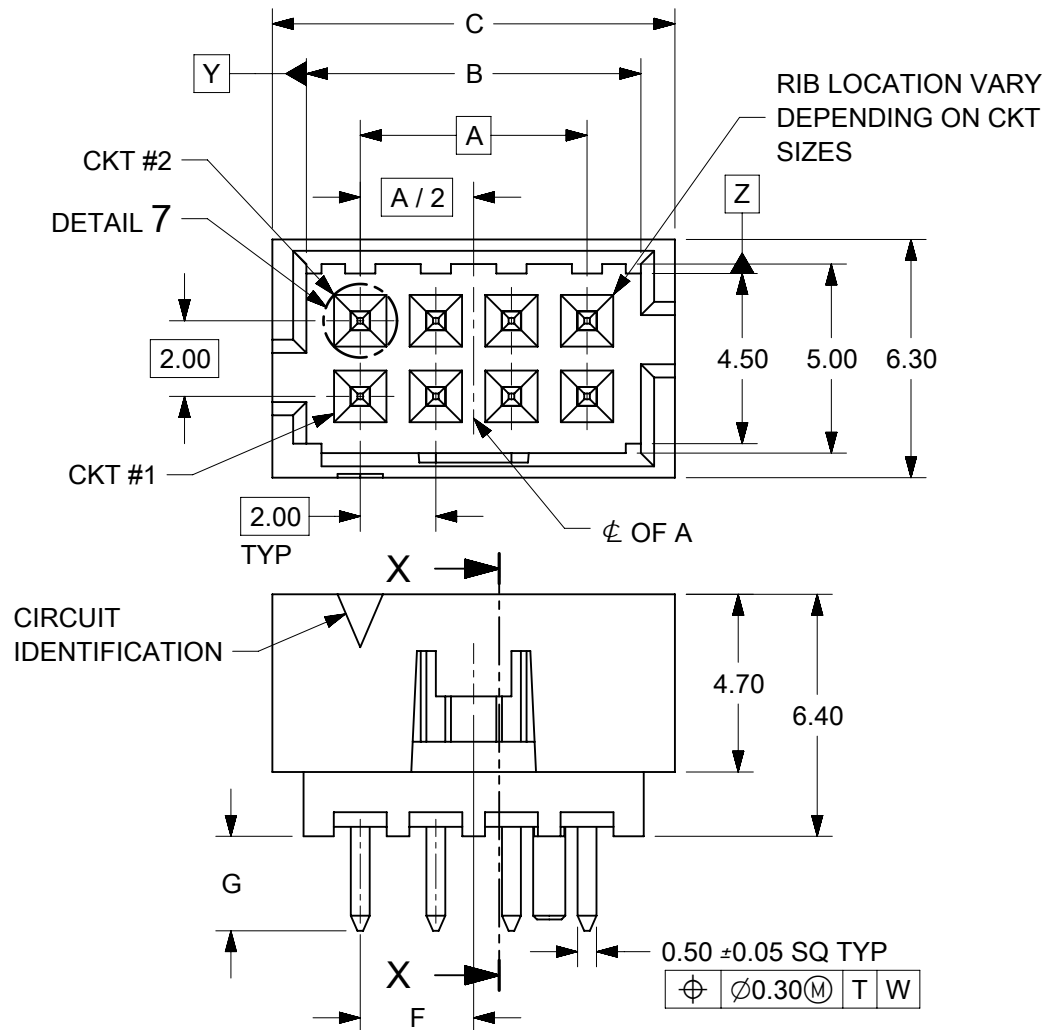
5 OF 13

milligrid

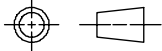
2MM PITCH, THROUGH HOLE VERTICAL SHROUDED HEADER

PRODUCT CUSTOMER DRAWING

8 TO 12 CIRCUITS



- NOTES:
- MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50mm SQ PHOSPHOR BRONZE
  - FINISHES: REFER TO PLATING OPTIONS
  - PRODUCT SPECIFICATION: PS-87831-027
  - PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
  - MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                        |                                                            |       |                 |              |       |                                                                                       |                   |                                                                  |                 |              |                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------|-------|-----------------|--------------|-------|---------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------|-----------------|--------------|----------------|--|
| SHT5, 10 ADD OPTIONS<br>EC NO: 168777<br>DRWN: GMENARLY<br>CHK'D: SCHEONG<br>REV APPR: KHLIM                                                  | 2017/09/08<br>2017/12/01<br>2018/01/02 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       | DIMENSION UNITS |              | SCALE |                                                                                       | <div>molex®</div> |                                                                  |                 |              |                |  |
|                                                                                                                                               |                                        |                                                            |       | MM              |              | NTS   |                                                                                       |                   |                                                                  |                 |              |                |  |
|                                                                                                                                               |                                        |                                                            | MM    | INCH            | DRWN BY      |       | DATE                                                                                  |                   | MILLIGRID<br>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br>HEADER |                 |              |                |  |
|                                                                                                                                               |                                        | 4 PLACES                                                   | ±     | ±               | GMENARLY     |       | 2015/04/15                                                                            |                   |                                                                  |                 |              |                |  |
|                                                                                                                                               |                                        | 3 PLACES                                                   | ±     | ±               | CHK'D BY     |       | DATE                                                                                  |                   |                                                                  |                 |              |                |  |
|                                                                                                                                               |                                        | 2 PLACES                                                   | ± 0.2 | ±               | CGOH         |       | 2015/06/29                                                                            |                   |                                                                  |                 |              |                |  |
|                                                                                                                                               |                                        | 1 PLACES                                                   | ±     | ±               | APPR BY      |       | DATE                                                                                  |                   |                                                                  |                 |              |                |  |
|                                                                                                                                               |                                        | 0 PLACES                                                   | ±     | ±               | KHLIM        |       | 2015/06/29                                                                            |                   | PRODUCT CUSTOMER DRAWING                                         |                 |              |                |  |
|                                                                                                                                               |                                        | ANGULAR TOL ± 3.0                                          |       |                 | DRAWING SIZE |       | THIRD ANGLE PROJECTION                                                                |                   | SERIES                                                           | MATERIAL NUMBER |              | CUSTOMER       |  |
|                                                                                                                                               |                                        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |                 | A3           |       |  |                   | 87831                                                            | SEE TABLE       |              | GENERAL MARKET |  |
| DOCUMENT NUMBER                                                                                                                               |                                        |                                                            |       |                 |              |       |                                                                                       |                   | DOC TYPE                                                         | DOC PART        | SHEET NUMBER |                |  |
| A12                                                                                                                                           | REV                                    |                                                            |       |                 |              |       |                                                                                       | SD-87831-0001     |                                                                  | PSD             | 001          | 6 OF 13        |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------|---------------------------------|--------------------------------|--------------------|----------------|--------|------------|--------|------------------------|-----|-----------|------|-------|------|-----|-----|------|-----------|-----------|-----|-----|-----|-----|-----|------|-----------|-----------|-----------|------|-----------|---|
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 8                                  |                                 | 7                              |                    | 6              |        | 5          |        | 4                      |     | 3         |      | 2     |      | 1   |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
| 8 CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CKT<br>SIZE | ASSY P/N<br>WITHOUT CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN T&R | PLATING<br>OPTIONS | FRICTION LOCKS |        | SIDE SLOTS |        | CENTER<br>POLARIZATION | PEG | DIMENSION |      |       |      |     |     | E    |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                    |                                 |                                |                    | DUAL           | CENTER | DUAL       | SINGLE |                        |     | A         | B    | C     | D    | E   | F   |      | G         | H         | D   |     |     |     |     |      |           |           |           |      |           |   |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8           | 87831-0819                         | N.A                             | N.A                            | 1                  | N.A            | N.A    | YES        | N.A    | YES                    | N.A | 6.00      | 8.85 | 10.65 | 9.00 | N.A | N.A | 2.50 | 3.60±0.20 | D         |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0820                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0821                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0836                         | N.A                             | N.A                            | 4                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0828                         | N.A                             | N.A                            | 2                  | N.A            | N.A    | YES        | N.A    | YES                    | YES |           |      |       |      |     | N.A | N.A  |           |           | N.A | N.A | N.A | N.A | N.A | 2.50 | 3.60±0.20 | D         |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0829                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0841                         | N.A                             | 87831-5551                     | 2                  | N.A            | YES    | YES        | N.A    | N.A                    | N.A |           |      |       |      |     | N.A | N.A  |           |           | N.A | N.A | N.A | N.A | N.A | N.A  | 2.50      | 3.60±0.20 | D         |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0842                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-5841                         | N.A                             | N.A                            | 2                  | N.A            | YES    | YES        | N.A    | N.A                    | N.A |           |      |       |      |     | YES | N.A  |           |           | N.A | N.A | N.A | N.A | N.A | N.A  | N.A       | 2.50      | 3.60±0.20 | D    |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-5441                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-5442                         | N.A                             | N.A                            | 3                  | N.A            | YES    | YES        | N.A    | N.A                    | N.A |           |      |       |      |     | N.A | N.A  |           |           | N.A | N.A | N.A | N.A | N.A | N.A  | N.A       | 2.50      | 3.60±0.20 | D    |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-5541                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 87831-5542                         | N.A                             | N.A                            | 3                  | N.A            | YES    | YES        | N.A    | N.A                    | N.A | 6.00      | 8.85 | 10.65 | 9.00 | N.A | N.A | 3.00 | 2.80      | 3.60±0.20 | D   |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-5741                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-5742                         | N.A                             | N.A                            | 3                  | N.A            | YES    | YES        | N.A    | N.A                    | N.A |           |      |       |      |     |     |      |           |           |     | N.A | N.A | N.A | N.A | N.A  | N.A       | N.A       | N.A       | 2.50 | 3.60±0.20 | D |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0832                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 87831-0843                         | N.A                             | N.A                            | 2                  | N.A            | YES    | N.A        | YES    | N.A                    | N.A | 6.00      | 8.85 | 10.65 | 9.00 | N.A | N.A | 3.00 | 2.50      | 3.60±0.20 | D   |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0844                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0845                         | N.A                             | N.A                            | 2                  | N.A            | YES    | N.A        | YES    | N.A                    | N.A |           |      |       |      |     |     |      |           |           |     | N.A | N.A | N.A | N.A | N.A  | N.A       | N.A       | N.A       | 2.50 | 3.60±0.20 | D |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 87831-0846                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
| PLATING OPTIONS:<br><br>1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND<br>1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER<br>1.27µm/50µin MIN. NICKEL OVERALL.<br>2 - 0.38µm/15µin GOLD IN CONTACT AREA AND<br>1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER<br>1.27µm/50µin MIN. NICKEL OVERALL.<br>3 - 0.76µm/30µin GOLD IN CONTACT AREA AND<br>1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER<br>1.27µm/50µin MIN. NICKEL OVERALL.<br>4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL. |             |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
| RELEASE STATUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | P1                                 | RELEASE DATE                    | 02.01.2018                     | 09:07:52           |                |        |            |        |                        |     |           |      |       |      |     |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 8                                  |                                 | 7                              |                    | 6              |        | 5          |        | 4                      |     | 3         |      | 2     |      | 1   |     |      |           |           |     |     |     |     |     |      |           |           |           |      |           |   |

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2017/09/08

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GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

± 0.2

±

1 PLACES

±

±

0 PLACES

±

±

ANGULAR TOL ± 3.0

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION UNITS

MM

SCALE

NTS

DRWN BY

DATE

GMENARLY

2015/04/15

CHK'D BY

DATE

CGOH

2015/06/29

APPR BY

DATE

KHLIM

2015/06/29

DRAWING SIZE

THIRD ANGLE PROJECTION

A3

SERIES

MATERIAL NUMBER

CUSTOMER

87831

SEE TABLE

GENERAL MARKET

DOCUMENT NUMBER

DOC TYPE

DOC PART

SHEET NUMBER

SD-87831-0001

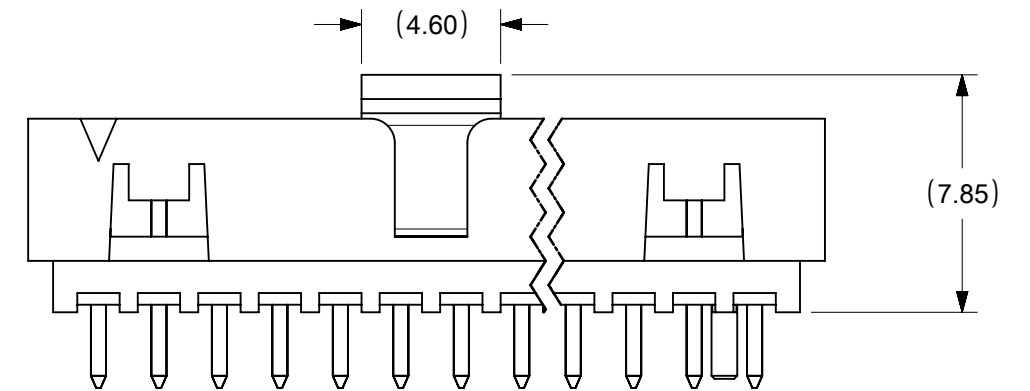
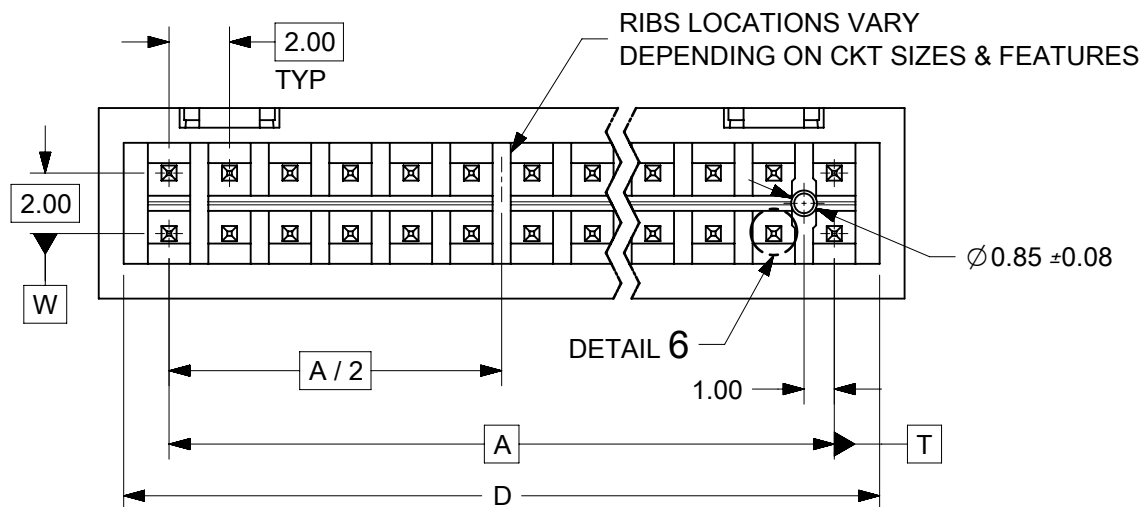
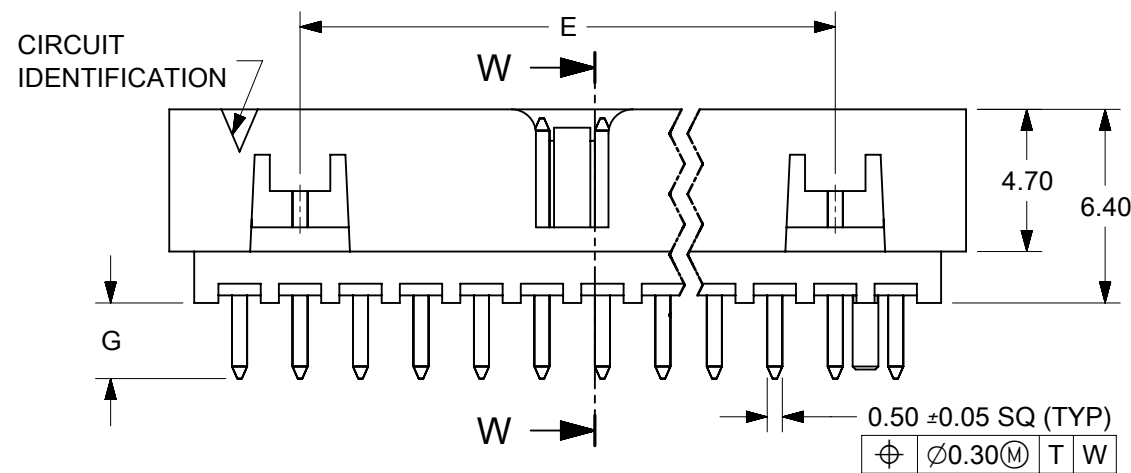
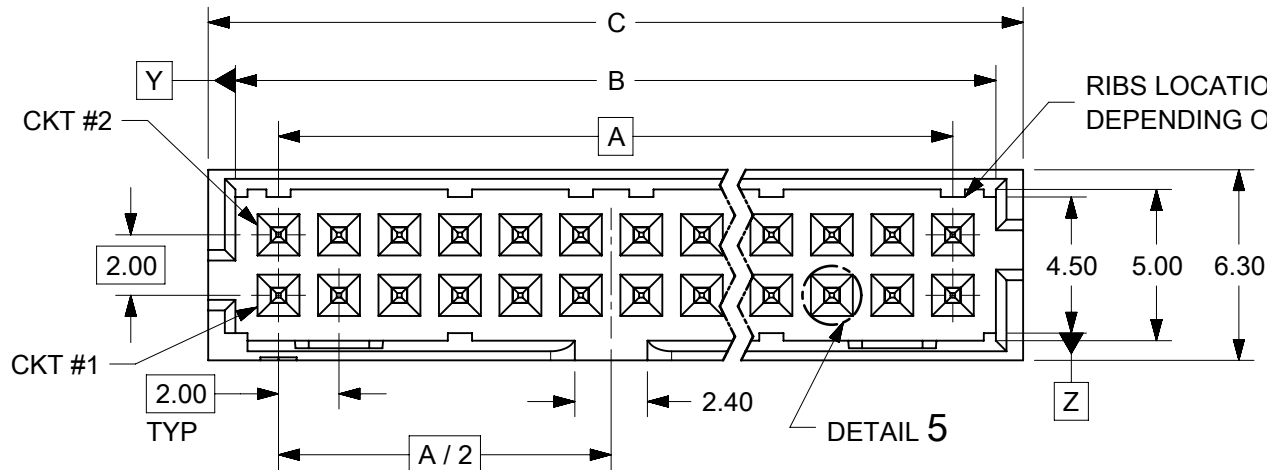
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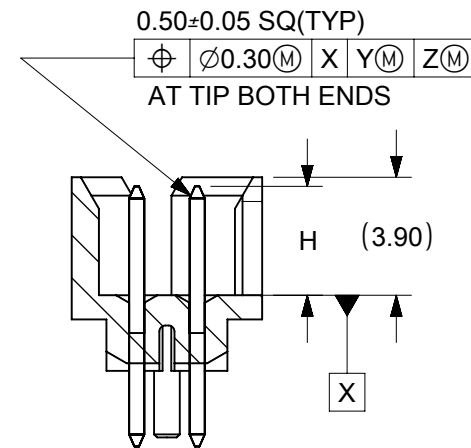
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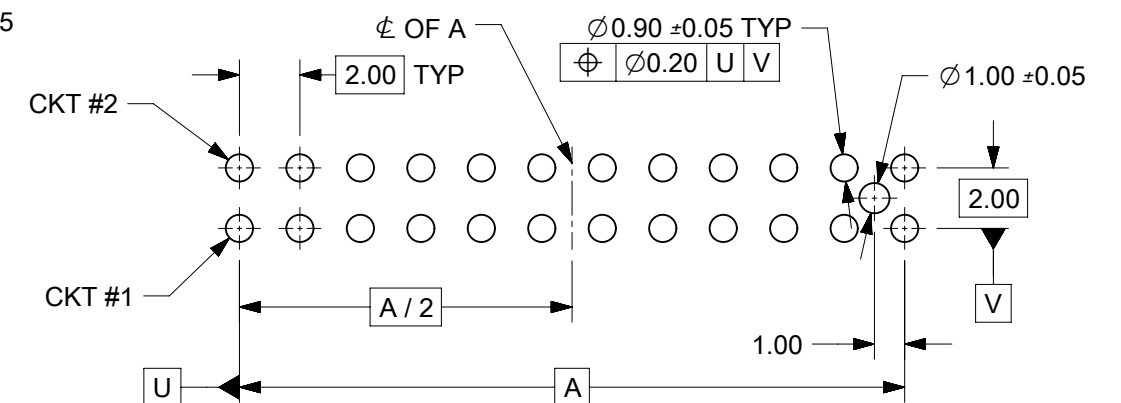
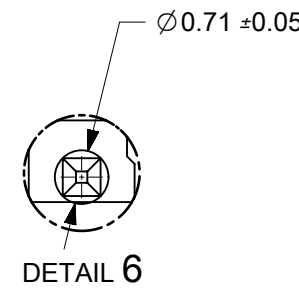
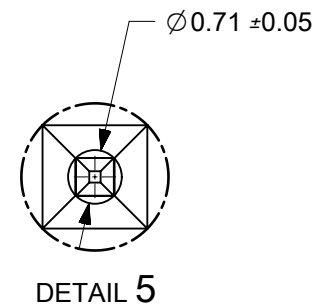
14 TO 50 CIRCUITS



VIEW FOR HEADER WITH CAP

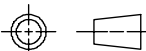


SECTION W-W



RECOMMENDED PCB LAYOUT

- NOTES:
- MATERIALS:  
HOUSING: 30% GF, NYLON, UL94V-0, COLOR: BLACK  
PIN: 0.50mm SQ PHOSPHOR BRONZE
  - FINISHES: REFER TO PLATING OPTIONS
  - PRODUCT SPECIFICATION: PS-87831-027
  - PACKAGING SPECIFICATION: SEE PACKAGING SPECS TABLE ON SHEET 1
  - MATES WITH: A. MOLEX CRIMP RECEPTACLE HOUSING: 51110 SERIES AND CRIMP TERMINAL: 50394 SERIES  
B. MOLEX 2mm MILLIGRID DUAL ROW IDT: 87568 SERIES  
C. MOLEX 2mm MILLIGRID DUAL ROW RECEPTACLE: 79107 (GOLD PLATED), 78787 (TIN PLATED)

| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                        |                                                            |       |      |                 |  |                        |  |                                                                                      |                                                                                       |              |           |  |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------|-------|------|-----------------|--|------------------------|--|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|-----------|--|----------------|
| SHT5, 10 ADD OPTIONS<br><br>EC NO: 168777<br>DRWN: GMENARLY<br>CHK'D: SCHEONG<br>REV APPR: KHLIM                                              | 2017/09/08<br>2017/12/01<br>2018/01/02 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       |      | DIMENSION UNITS |  | SCALE                  |  | <div>molex®</div>                                                                    |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        |                                                            |       |      | MM              |  | NTS                    |  |                                                                                      |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        |                                                            | MM    | INCH | DRWN BY         |  | DATE                   |  | <div>MILLIGRID</div> <div>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br/>HEADER</div> |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        | 4 PLACES                                                   | ±     | ±    | GMENARLY        |  | 2015/04/15             |  |                                                                                      |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        | 3 PLACES                                                   | ±     | ±    | CHK'D BY        |  | DATE                   |  |                                                                                      |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        | 2 PLACES                                                   | ± 0.2 | ±    | CGOH            |  | 2015/06/29             |  |                                                                                      |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        | 1 PLACES                                                   | ±     | ±    | APPR BY         |  | DATE                   |  |                                                                                      |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        | 0 PLACES                                                   | ±     | ±    | KHLIM           |  | 2015/06/29             |  | PRODUCT CUSTOMER DRAWING                                                             |                                                                                       |              |           |  |                |
|                                                                                                                                               |                                        | ANGULAR TOL ± 3.0                                          |       |      | DRAWING SIZE    |  | THIRD ANGLE PROJECTION |  | SERIES                                                                               | MATERIAL NUMBER                                                                       |              | CUSTOMER  |  |                |
|                                                                                                                                               |                                        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |      |                 |  |                        |  | A3                                                                                   |  | 87831        | SEE TABLE |  | GENERAL MARKET |
| A12                                                                                                                                           | REV                                    |                                                            |       |      |                 |  | DOCUMENT NUMBER        |  | DOC TYPE                                                                             | DOC PART                                                                              | SHEET NUMBER |           |  |                |
|                                                                                                                                               |                                        |                                                            |       |      |                 |  | SD-87831-0001          |  | PSD                                                                                  | 001                                                                                   | 9 OF 13      |           |  |                |

|                                                         |                                                                                                                                               |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|--------------------------|------------------------|-----------------|----------------------------------|------------|--------------------------|------------------------------------------------------------------|------|-----------------|-------|--------------------------|-------|-------|----------------------------|-------|-----------|
| 9                                                       |                                                                                                                                               | 8                                      |                                       | 7                        |                        | 6               |                                  | 5          |                          | 4                                                                |      | 3               |       | 2                        |       | 1     |                            |       |           |
| 14 TO 20 CIRCUITS                                       |                                                                                                                                               |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| E                                                       | CKT SIZE                                                                                                                                      | ASSY P/N WITHOUT CAP IN TUBE           | ASSY P/N WITH CAP IN TUBE             | ASSY P/N WITH CAP IN T&R | PLATING OPTIONS        | FRICTION LOCKS  |                                  | SIDE SLOTS |                          | CENTER POLARIZATION                                              | PEG  | DIMENSION       |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               |                                        |                                       |                          |                        | DUAL            | CENTER                           | DUAL       | SINGLE                   |                                                                  |      | A               | B     | C                        | D     | E     | F                          | G     | H         |
|                                                         | 14                                                                                                                                            | 87831-1419                             | N.A                                   | N.A                      | 1                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | N.A  | 12.00           | 14.85 | 16.65                    | 15.00 | 8.00  | N.A                        | 2.50  | 3.60±0.20 |
|                                                         |                                                                                                                                               | 87831-1420                             | 87831-1430                            | 87831-5554               | 2                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-1421                             | N.A                                   | 87831-5560               | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-1436                             | N.A                                   | N.A                      | 4                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-1428                             | N.A                                   | N.A                      | 2                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | YES  |                 |       |                          |       |       |                            | 2.50  |           |
|                                                         |                                                                                                                                               | 87831-1429                             | N.A                                   | 87831-5563               | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            | 3.50  |           |
|                                                         |                                                                                                                                               | 87831-1435                             | N.A                                   | N.A                      | 3                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | YES  |                 |       |                          |       |       |                            | 3.50  |           |
| 87831-1410                                              |                                                                                                                                               | N.A                                    | N.A                                   | 2                        | YES                    | N.A             | YES                              | N.A        | YES                      | N.A                                                              | 3.50 |                 |       |                          |       |       |                            |       |           |
| 87831-1411                                              | N.A                                                                                                                                           | N.A                                    | 3                                     |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| D                                                       | 16                                                                                                                                            | 87831-1619                             | N.A                                   | N.A                      | 1                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | N.A  | 14.00           | 16.85 | 18.65                    | 17.00 | 10.00 | N.A                        | 2.50  | 3.60±0.20 |
|                                                         |                                                                                                                                               | 87831-1620                             | N.A                                   | N.A                      | 2                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-1621                             | N.A                                   | N.A                      | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-1636                             | N.A                                   | N.A                      | 4                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-1628                             | N.A                                   | N.A                      | 2                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | YES  |                 |       |                          |       |       |                            | 2.50  |           |
|                                                         |                                                                                                                                               | 87831-1629                             | N.A                                   | 87831-5559               | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            | 3.50  |           |
|                                                         |                                                                                                                                               | 87831-1635                             | N.A                                   | N.A                      | 3                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | YES  |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | C                                      | 18                                    | 87831-1819               | N.A                    | N.A             | 1                                | YES        | N.A                      | YES                                                              | N.A  |                 |       |                          |       |       |                            | YES   |           |
| 87831-1820                                              | N.A                                                                                                                                           |                                        |                                       | 87831-5566               | 2                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| 87831-1821                                              | N.A                                                                                                                                           |                                        |                                       | N.A                      | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| 87831-1836                                              | N.A                                                                                                                                           |                                        |                                       | N.A                      | 4                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| 87831-1828                                              | N.A                                                                                                                                           |                                        |                                       | N.A                      | 2                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | YES  | 2.50            |       |                          |       |       |                            |       |           |
| 87831-1829                                              | N.A                                                                                                                                           |                                        |                                       | N.A                      | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| B                                                       | 20                                                                                                                                            |                                        |                                       | 87831-2019               | N.A                    | N.A             | 1                                | YES        | N.A                      | YES                                                              | N.A  | YES             | N.A   | 18.00                    | 20.85 | 22.65 | 21.00                      | 14.00 | N.A       |
|                                                         |                                                                                                                                               | 87831-2020                             | N.A                                   | N.A                      | 2                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-2021                             | N.A                                   | N.A                      | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-2036                             | N.A                                   | N.A                      | 4                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-2028                             | N.A                                   | N.A                      | 2                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | YES  | 2.50            |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-2029                             | N.A                                   | N.A                      | 3                      |                 |                                  |            |                          |                                                                  |      | 3.50            |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-2035                             | N.A                                   | N.A                      | 3                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | YES  | 3.50            |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-2010                             | N.A                                   | N.A                      | 2                      | YES             | N.A                              | YES        | N.A                      | YES                                                              | N.A  | 3.50            |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               | 87831-2011                             | N.A                                   | N.A                      | 3                      |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| A                                                       | PLATING OPTIONS:                                                                                                                              |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         | 1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.        |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         | 2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.              |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         | 3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.              |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         | 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.                                                                       |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                        |                                       |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         | SHT5, 10 ADD OPTIONS<br>EC NO: 168777<br>DRWN: GMENARLY<br>CHK'D: SCHEONG<br>REV APPR: KHLIM                                                  | 2017/09/08<br>2017/12/01<br>2018/01/02 | GENERAL TOLERANCES (UNLESS SPECIFIED) |                          |                        | DIMENSION UNITS |                                  | SCALE      |                          | molex®                                                           |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               |                                        |                                       | MM                       | INCH                   | MM              | NTS                              |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               |                                        | 4 PLACES                              | ±                        | ±                      | DRWN BY         |                                  | DATE       |                          | MILLIGRID<br>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br>HEADER |      |                 |       |                          |       |       |                            |       |           |
|                                                         |                                                                                                                                               |                                        | 3 PLACES                              | ±                        | ±                      | GMENARLY        |                                  | 2015/04/15 |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| 2 PLACES                                                |                                                                                                                                               |                                        | ± 0.2                                 | ±                        | CHK'D BY               |                 | DATE                             |            | PRODUCT CUSTOMER DRAWING |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| 1 PLACES                                                |                                                                                                                                               |                                        | ±                                     | ±                        | CGOH                   |                 | 2015/06/29                       |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| 0 PLACES                                                |                                                                                                                                               |                                        | ±                                     | ±                        | APPR BY                |                 | DATE                             |            | SERIES<br>87831          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| ANGULAR TOL ± 3.0                                       |                                                                                                                                               |                                        | KHLIM                                 |                          | 2015/06/29             |                 | MATERIAL NUMBER<br>SEE TABLE     |            |                          |                                                                  |      |                 |       |                          |       |       | CUSTOMER<br>GENERAL MARKET |       |           |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |                                                                                                                                               |                                        | DRAWING SIZE                          |                          | THIRD ANGLE PROJECTION |                 | DOCUMENT NUMBER<br>SD-87831-0001 |            |                          | DOC TYPE<br>PSD                                                  |      | DOC PART<br>001 |       | SHEET NUMBER<br>10 OF 13 |       |       |                            |       |           |
| A12                                                     |                                                                                                                                               |                                        | REV                                   |                          |                        |                 |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| RELEASE STATUS                                          |                                                                                                                                               | P1                                     | RELEASE DATE                          |                          | 02.01.2018             | 09:07:52        |                                  |            |                          |                                                                  |      |                 |       |                          |       |       |                            |       |           |
| 9                                                       |                                                                                                                                               | 8                                      |                                       | 7                        |                        | 6               |                                  | 5          |                          | 4                                                                |      | 3               |       | 2                        |       | 1     |                            |       |           |

|                                                                                                                                              |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|--------------------------------|--------------------|----------------|--------|------------|--------|------------------------|-----|-----------|-------|-------|-------|-------|-----|------|-----------|
| 9                                                                                                                                            |                                    | 8                               |                                | 7                  |                | 6      |            | 5      |                        | 4   |           | 3     |       | 2     |       | 1   |      |           |
| 22 TO 30 CIRCUITS                                                                                                                            |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| CKT<br>SIZE                                                                                                                                  | ASSY P/N<br>WITHOUT CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN T&R | PLATING<br>OPTIONS | FRICTION LOCKS |        | SIDE SLOTS |        | CENTER<br>POLARIZATION | PEG | DIMENSION |       |       |       |       |     |      |           |
|                                                                                                                                              |                                    |                                 |                                |                    | DUAL           | CENTER | DUAL       | SINGLE |                        |     | A         | B     | C     | D     | E     | F   | G    | H         |
| 22                                                                                                                                           | 87831-2219                         | N.A                             | N.A                            | 1                  | YES            | N.A    | YES        | N.A    | YES                    | N.A | 20.00     | 22.85 | 24.65 | 23.00 | 16.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                              | 87831-2220                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2221                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2236                         | N.A                             | N.A                            | 4                  | YES            | N.A    | YES        | N.A    | YES                    | YES |           |       |       |       |       |     | 2.50 |           |
|                                                                                                                                              | 87831-2228                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2229                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| 24                                                                                                                                           | 87831-2419                         | N.A                             | N.A                            | 1                  | YES            | N.A    | YES        | N.A    | YES                    | N.A | 22.00     | 24.85 | 26.65 | 25.00 | 18.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                              | 87831-2420                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2421                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2436                         | N.A                             | N.A                            | 4                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2428                         | N.A                             | N.A                            | 2                  | YES            | N.A    | YES        | N.A    | YES                    | YES |           |       |       |       |       |     | 2.50 |           |
|                                                                                                                                              | 87831-2429                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2435                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     | YES  |           |
|                                                                                                                                              | 87831-2410                         | N.A                             | N.A                            | 2                  | YES            | N.A    | YES        | N.A    | YES                    | N.A |           |       |       |       |       |     |      |           |
| 26                                                                                                                                           | 87831-2619                         | N.A                             | N.A                            | 1                  | YES            | N.A    | YES        | N.A    | YES                    | N.A | 24.00     | 26.85 | 28.65 | 27.00 | 20.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                              | 87831-2620                         | 87831-2630                      | 87831-5555                     | 2                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2621                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2636                         | N.A                             | N.A                            | 4                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2628                         | N.A                             | N.A                            | 2                  | YES            | N.A    | YES        | N.A    | YES                    | YES |           |       |       |       |       |     | 2.50 |           |
|                                                                                                                                              | 87831-2629                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2610                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |       |       |       |       |     | YES  |           |
| 28                                                                                                                                           | 87831-2819                         | N.A                             | N.A                            | 1                  | YES            | N.A    | YES        | N.A    | YES                    | N.A | 26.00     | 28.85 | 30.65 | 29.00 | 22.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                              | 87831-2820                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2821                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2836                         | N.A                             | N.A                            | 4                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-2828                         | N.A                             | N.A                            | 2                  | YES            | N.A    | YES        | N.A    | YES                    | YES |           |       |       |       |       |     | 2.50 |           |
|                                                                                                                                              | 87831-2829                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| 30                                                                                                                                           | 87831-3019                         | N.A                             | N.A                            | 1                  | YES            | N.A    | YES        | N.A    | YES                    | N.A | 28.00     | 30.85 | 32.65 | 31.00 | 24.00 | N.A | 2.50 | 3.60±0.20 |
|                                                                                                                                              | 87831-3020                         | N.A                             | N.A                            | 2                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-3021                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-3036                         | N.A                             | N.A                            | 4                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-3028                         | N.A                             | N.A                            | 2                  | YES            | N.A    | YES        | N.A    | YES                    | YES |           |       |       |       |       |     | 2.50 |           |
|                                                                                                                                              | 87831-3029                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
|                                                                                                                                              | 87831-3035                         | N.A                             | N.A                            | 3                  |                |        |            |        |                        |     |           |       |       |       |       |     | YES  |           |
|                                                                                                                                              | 87831-3010                         | 87831-3030                      | 87831-3050                     | 2                  | YES            | N.A    | YES        | N.A    | YES                    | N.A |           |       |       |       |       |     | 3.50 |           |
| PLATING OPTIONS:                                                                                                                             |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| 1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND<br>1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER<br>1.27µm/50µin MIN. NICKEL OVERALL. |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| 2 - 0.38µm/15µin GOLD IN CONTACT AREA AND<br>1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER<br>1.27µm/50µin MIN. NICKEL OVERALL.       |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| 3 - 0.76µm/30µin GOLD IN CONTACT AREA AND<br>1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER<br>1.27µm/50µin MIN. NICKEL OVERALL.       |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| 4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.                                                                      |                                    |                                 |                                |                    |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| RELEASE STATUS                                                                                                                               | P1                                 | RELEASE DATE                    | 02.01.2018                     | 09:07:52           |                |        |            |        |                        |     |           |       |       |       |       |     |      |           |
| 9                                                                                                                                            |                                    | 8                               |                                | 7                  |                | 6      |            | 5      |                        | 4   |           | 3     |       | 2     |       | 1   |      |           |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SHT5, 10 ADD OPTIONS

EC NO: 168777

DRWN: GMENARLY

CHK'D: SCHEONG

REV

2017/09/08

2017/12/01

2018/01/02

APPR: KHLIM

GENERAL TOLERANCES (UNLESS SPECIFIED)

MM

INCH

4 PLACES

±

±

3 PLACES

±

±

2 PLACES

± 0.2

±

1 PLACES

±

±

0 PLACES

±

±

ANGULAR TOL ± 3.0

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION UNITS

MM

SCALE

NTS

DRWN BY

DATE

GMENARLY

2015/04/15

CHK'D BY

DATE

CGOH

2015/06/29

APPR BY

DATE

KHLIM

2015/06/29

DRAWING SIZE

THIRD ANGLE PROJECTION

A3

SERIES

87831

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

DOCUMENT NUMBER

SD-87831-0001

DOC TYPE

PSD

DOC PART

001

SHEET NUMBER

11 OF 13

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------|---------------------------------|--------------------------------|--------------------|----------------|------------------------|------------|------------------------------------------------------------------|------------------------|-------|-----------|-------|-------|----------------------------------|-------|----------------------------|------------------------------------------------------------------------------------------------|------------------------------------------|--------------|-----------------|----------|--------------------------|--|-------------------|--|--|--|--|--|--|--|----|------|----|-----|----------|---|--|---|---------|--|------|--|------------------------------------------------------------------|--|--|--|--|--|----------|---|--|---|----------|--|------------|--|----------|---|-----|---|----------|--|------|--|--------------------------|--|--|--|--|--|----------|---|--|---|------|--|------------|--|----------|---|--|---|---------|--|------|--|-----------------|--|--|--|--|--|------------------------------|--|----------------------------|--|-------------------|--|--|--|--------------|--|------------------------|--|----------------------------------|--|--|--|-----------------|--|-----------------|--|--------------------------|--|------------------------------------------------------------|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            | 8                                  |                                 | 7                              |                    | 6              |                        | 5          |                                                                  | 4                      |       | 3         |       | 2     |                                  | 1     |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 TO 40 CIRCUITS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 32                                                         | ASSY P/N<br>WITHOUT CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN TUBE | ASSY P/N<br>WITH CAP<br>IN T&R | PLATING<br>OPTIONS | FRICTION LOCKS |                        | SIDE SLOTS |                                                                  | CENTER<br>POLARIZATION | PEG   | DIMENSION |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                    |                                 |                                |                    | DUAL           | CENTER                 | DUAL       | SINGLE                                                           |                        |       | A         | B     | C     | D                                | E     | F                          | G                                                                                              | H                                        |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3219                         | N.A                             | N.A                            | 1                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | N.A   | 30.00     | 32.85 | 34.65 | 33.00                            | 26.00 | N.A                        | 2.50                                                                                           | 3.60±0.20                                |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3220                         | N.A                             | N.A                            | 2                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3221                         | N.A                             | N.A                            | 3                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3236                         | N.A                             | N.A                            | 4                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | YES   |           |       |       |                                  |       |                            | 2.50                                                                                           |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3228                                                 | N.A                                | N.A                             | 2                              |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87831-3229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N.A                                                        | N.A                                | 3                               |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 34                                                         | 87831-3419                         | N.A                             | N.A                            | 1                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | N.A   | 32.00     | 34.85 | 36.65 | 35.00                            | 28.00 | N.A                        | 2.50                                                                                           | 3.60±0.20                                |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3420                         | N.A                             | N.A                            | 2                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3421                         | N.A                             | N.A                            | 3                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3436                         | N.A                             | N.A                            | 4                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | YES   |           |       |       |                                  |       |                            | 2.50                                                                                           |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3428                         | N.A                             | N.A                            | 2                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3429                         | N.A                             | N.A                            | 3                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3435                         | N.A                             | N.A                            | 3                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | YES   |           |       |       |                                  |       |                            | 3.50                                                                                           |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36                                                         | 87831-3619                         | N.A                             | N.A                            | 1                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | N.A   | 34.00     | 36.85 | 38.65 | 37.00                            | 30.00 | N.A                        | 2.50                                                                                           | 3.60±0.20                                |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3620                         | N.A                             | 87831-5564                     | 2                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3621                         | N.A                             | N.A                            | 3                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3636                         | N.A                             | N.A                            | 4                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | YES   |           |       |       |                                  |       |                            | 2.50                                                                                           |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3628                         | N.A                             | N.A                            | 2                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-3629                         | N.A                             | N.A                            | 3                  |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 87831-3819                                                 | N.A                                | N.A                             | 1                              | YES                | N.A            | YES                    | N.A        | YES                                                              | N.A                    | 36.00 | 38.85     | 40.65 | 39.00 | 32.00                            | N.A   | 2.50                       | 3.60±0.20                                                                                      |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 87831-3820                                                 | N.A                                | N.A                             | 2                              |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40                                                         | 87831-4019                         | N.A                             | N.A                            | 1                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | N.A   | 38.00     | 40.85 | 42.65 | 41.00                            | 34.00 | N.A                        | 2.50                                                                                           | 3.60±0.20                                |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | 87831-4010                         | N.A                             | N.A                            | 2                  | YES            | N.A                    | YES        | N.A                                                              | YES                    | N.A   |           |       |       |                                  |       |                            | 3.50                                                                                           |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <table><tr><td rowspan="10">SHT5, 10 ADD OPTIONS<br/>EC NO: 168777<br/>DRWN: GMENARLY<br/>CHK'D: SCHEONG<br/>REV / APPR: KHLIM</td><td colspan="2">GENERAL TOLERANCES<br/>(UNLESS SPECIFIED)</td><td colspan="2">DIMENSION UNITS</td><td colspan="2">SCALE</td><td colspan="6" rowspan="2"><div>molex®</div></td></tr><tr><td></td><td></td><td>MM</td><td>INCH</td><td>MM</td><td>NTS</td></tr><tr><td>4 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">DRWN BY</td><td colspan="2">DATE</td><td colspan="6" rowspan="2">MILLIGRID<br/>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br/>HEADER</td></tr><tr><td>3 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">GMENARLY</td><td colspan="2">2015/04/15</td></tr><tr><td>2 PLACES</td><td>±</td><td>0.2</td><td>±</td><td colspan="2">CHK'D BY</td><td colspan="2">DATE</td><td colspan="6" rowspan="2">PRODUCT CUSTOMER DRAWING</td></tr><tr><td>1 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">CGOH</td><td colspan="2">2015/06/29</td></tr><tr><td>0 PLACES</td><td>±</td><td></td><td>±</td><td colspan="2">APPR BY</td><td colspan="2">DATE</td><td colspan="6" rowspan="2">SERIES<br/>87831</td><td colspan="2">MATERIAL NUMBER<br/>SEE TABLE</td><td colspan="2">CUSTOMER<br/>GENERAL MARKET</td></tr><tr><td colspan="4">ANGULAR TOL ± 3.0</td><td colspan="2">DRAWING SIZE</td><td colspan="2">THIRD ANGLE PROJECTION</td><td colspan="4">DOCUMENT NUMBER<br/>SD-87831-0001</td><td colspan="2">DOC TYPE<br/>PSD</td><td colspan="2">DOC PART<br/>001</td><td colspan="2">SHEET NUMBER<br/>12 OF 13</td></tr><tr><td colspan="4">DRAFT WHERE APPLICABLE<br/>MUST REMAIN<br/>WITHIN DIMENSIONS</td><td colspan="2">A3</td><td colspan="2"></td><td colspan="10"></td></tr><tr><td>A12</td><td>REV</td><td colspan="15"></td></tr></table> |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            | SHT5, 10 ADD OPTIONS<br>EC NO: 168777<br>DRWN: GMENARLY<br>CHK'D: SCHEONG<br>REV / APPR: KHLIM | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |              | DIMENSION UNITS |          | SCALE                    |  | <div>molex®</div> |  |  |  |  |  |  |  | MM | INCH | MM | NTS | 4 PLACES | ± |  | ± | DRWN BY |  | DATE |  | MILLIGRID<br>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br>HEADER |  |  |  |  |  | 3 PLACES | ± |  | ± | GMENARLY |  | 2015/04/15 |  | 2 PLACES | ± | 0.2 | ± | CHK'D BY |  | DATE |  | PRODUCT CUSTOMER DRAWING |  |  |  |  |  | 1 PLACES | ± |  | ± | CGOH |  | 2015/06/29 |  | 0 PLACES | ± |  | ± | APPR BY |  | DATE |  | SERIES<br>87831 |  |  |  |  |  | MATERIAL NUMBER<br>SEE TABLE |  | CUSTOMER<br>GENERAL MARKET |  | ANGULAR TOL ± 3.0 |  |  |  | DRAWING SIZE |  | THIRD ANGLE PROJECTION |  | DOCUMENT NUMBER<br>SD-87831-0001 |  |  |  | DOC TYPE<br>PSD |  | DOC PART<br>001 |  | SHEET NUMBER<br>12 OF 13 |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |  |  | A3 |  |  |  |  |  |  |  |  |  |  |  |  |  | A12 | REV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SHT5, 10 ADD OPTIONS<br>EC NO: 168777<br>DRWN: GMENARLY<br>CHK'D: SCHEONG<br>REV / APPR: KHLIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |                                    | DIMENSION UNITS                 |                                | SCALE              |                | <div>molex®</div>      |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                                    | MM                              | INCH                           | MM                 | NTS            |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4 PLACES                                                   | ±                                  |                                 | ±                              | DRWN BY            |                | DATE                   |            | MILLIGRID<br>2MM PITCH, THROUGH HOLE VERTICAL SHROUDED<br>HEADER |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3 PLACES                                                   | ±                                  |                                 | ±                              | GMENARLY           |                | 2015/04/15             |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2 PLACES                                                   | ±                                  | 0.2                             | ±                              | CHK'D BY           |                | DATE                   |            | PRODUCT CUSTOMER DRAWING                                         |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 PLACES                                                   | ±                                  |                                 | ±                              | CGOH               |                | 2015/06/29             |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 PLACES                                                   | ±                                  |                                 | ±                              | APPR BY            |                | DATE                   |            | SERIES<br>87831                                                  |                        |       |           |       |       | MATERIAL NUMBER<br>SEE TABLE     |       | CUSTOMER<br>GENERAL MARKET |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ANGULAR TOL ± 3.0                                          |                                    |                                 |                                | DRAWING SIZE       |                | THIRD ANGLE PROJECTION |            |                                                                  |                        |       |           |       |       | DOCUMENT NUMBER<br>SD-87831-0001 |       |                            |                                                                                                | DOC TYPE<br>PSD                          |              | DOC PART<br>001 |          | SHEET NUMBER<br>12 OF 13 |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                    |                                 |                                | A3                 |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A12                                                        | REV                                |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <div>PLATING OPTIONS:</div> <div>1 - 0.05-0.13µm/2-5µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.</div> <div>2 - 0.38µm/15µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.</div> <div>3 - 0.76µm/30µin GOLD IN CONTACT AREA AND 1.88µm/75µin MIN. MATTE TIN IN SOLDER TAIL AREA OVER 1.27µm/50µin MIN. NICKEL OVERALL.</div> <div>4 - 2.50µm/100µin MIN. MATTE TIN OVER 1.25µm/50µin MIN. NICKEL OVERALL.</div> <table><tr><td>RELEASE STATUS</td><td>P1</td><td>RELEASE DATE</td><td>02.01.2018</td><td>09:07:52</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |                                    |                                 |                                |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            | RELEASE STATUS                                                                                 | P1                                       | RELEASE DATE | 02.01.2018      | 09:07:52 |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RELEASE STATUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P1                                                         | RELEASE DATE                       | 02.01.2018                      | 09:07:52                       |                    |                |                        |            |                                                                  |                        |       |           |       |       |                                  |       |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            | 8                                  |                                 | 7                              |                    | 6              |                        | 5          |                                                                  | 4                      |       | 3         |       | 2     |                                  | 1     |                            |                                                                                                |                                          |              |                 |          |                          |  |                   |  |  |  |  |  |  |  |    |      |    |     |          |   |  |   |         |  |      |  |                                                                  |  |  |  |  |  |          |   |  |   |          |  |            |  |          |   |     |   |          |  |      |  |                          |  |  |  |  |  |          |   |  |   |      |  |            |  |          |   |  |   |         |  |      |  |                 |  |  |  |  |  |                              |  |                            |  |                   |  |  |  |              |  |                        |  |                                  |  |  |  |                 |  |                 |  |                          |  |                                                            |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

