MIL PRF 32535 BME X7R MLCC

Defense Logistics Agency Approved

AVX has been approved by the Defense Logistics Agency (DLA) for its qualification of its Mil Prf 32535 BME X7R MLCC technology.

Using its leading edge technology AVX can now offer Mil Prf 32535 approved capacitors from 0402 to 2220 case sizes. With capacitance & voltage ranges ranging from 2.2nF to 22µF, 16–100 volts, currently. AVXs Mil Prf 32535 meets the designer needs by boosting the CV range compared to the standard surface mount Mil Ranges and reduces the gap between commercial and Mil Spec product ranges while meeting the Mil reliability levels. The results of this technology has several key benefits for the Mil design engineer resulting in , ability to downsize case sizes, reducing PCB weight and allowing more efficient use of the PCB area available with the higher CV MLCCs. These surface mount components also incorporate Flexiterm®, which greatly enhances resistance to any of the thermo-mechanical stress experienced by MLCCs during PCB assembly and during its life time.

FEATURES

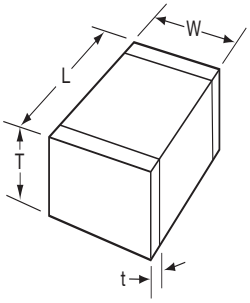
- "M" and "T" reliability levels available.
- Higher CV capability than standard Mil based capacitors resulting in reduced size/weight of components and saving in PCB space required.
- Flexiterm® technology used as standard in range for enhanced thermos-mechanical stress resistance.
- Case sizes 0402-2220, cap values 2.2nF–22.0µF available.
- Voltages 16-100 Volts

HOW TO ORDER

M32535	08	E2	Z	226	K	R	M	B
Mil Spec M32535	**Slash Sheet Number** 02 = 0402 03 = 0603 04 = 0805 05 = 1206 06 = 1210 07 = 1812 08 - 2220	**Characteristic** E2 (X7R ± 15%)	**Voltage** Y = 16V Z = 25V A = 50V B = 100V	**Capacitance** 682 = 6.8nF 103 = 10nF 474 = 470nF 475 = 4.7µF 226 = 22µF	**Tolerance** J = ±5% K = ±10% M = ±20%	**Termination** R = Expoxy Ni Sn/Pb	**Product Level** M = Standard T = Space Level	**Electrode** B = BME

Please note all parts are terminated with a minimum 10% Pb plating.

DIMENSIONS



mm (inches)

Size	M3253502		M3253503		M3253504		M3253505		M3253506		M3253507		M3253508	
	0402		0603		0805		1206		1210		1812		2220	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
(L) Length	0.92 (0.036)	1.12 (0.044)	1.45 (0.057)	1.75 (0.069)	1.79 (0.069)	2.26 (0.089)	3.00 (0.118)	3.45 (0.136)	2.94 (0.116)	3.35 (0.136)	4.19 (0.165)	4.80 (0.190)	5.2 (0.208)	6.1 (0.24)
(W) Width	0.41 (0.016)	0.61 (0.024)	0.66 (0.026)	0.97 (0.038)	1.01 (0.040)	1.52 (0.060)	1.35 (0.053)	1.85 (0.073)	2.25 (0.088)	2.74 (0.108)	2.89 (0.114)	3.50 (0.138)	4.59 (0.181)	5.41 (0.213)
(T) Thickness	0.61 (0.24) Max.		0.99 (0.039) Max.		1.52 (0.060)		1.78 (0.070) Max.		2.80 (0.110) Max.		2.80 (0.110) Max.		2.80 (0.110) Max.	
(t) terminal	0.1 (0.004)	0.30 (0.012)	0.20 (0.008)	0.61 (0.024)	0.25 (0.010)	0.75 (0.030)	0.15 (0.006)	0.86 (0.034)	0.15 (0.006)	0.86 (0.034)	0.15 (0.006)	1.1 (0.042)	0.17 (0.007)	1.09 (0.043)

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MIL PRF 32535 X7R APPROVED RANGE

Mil		M3253502			M3253503			M3253504			M3253505			M3253506			M3253507			M3253508		
Case Sizes		0402			0603			0805			1206			1210			1812			2220		
Code	Value	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V	16/25V	50V	100V
222	2.2 (nF)	■	■	■	■	■	■	■	■	■												
272	2.7	■	■	■	■	■	■	■	■	■												
332	3.3	■	■	■	■	■	■	■	■	■												
392	3.9	■	■	■	■	■	■	■	■	■												
472	4.7	■	■	■	■	■	■	■	■	■												
562	5.6	■	■	■	■	■	■	■	■	■												
682	6.8	■	■	■	■	■	■	■	■	■												
822	8.2	■	■		■	■	■	■	■	■												
103	10	■	■		■	■	■	■	■	■	■	■	■									
123	12	■	■		■	■	■	■	■	■	■	■	■									
153	15	■	■		■	■	■	■	■	■	■	■	■									
183	18	■	■		■	■	■	■	■	■	■	■	■									
223	22	■	■		■	■		■	■	■	■	■	■	■	■	■						
273	27	■	■		■	■		■	■	■	■	■	■	■	■	■						
333	33	■			■	■		■	■	■	■	■	■	■	■	■						
393	39				■	■		■	■	■	■	■	■	■	■	■						
473	47				■	■		■	■	■	■	■	■	■	■	■						
563	56				■	■		■	■	■	■	■	■	■	■	■						
683	68				■	■		■	■	■	■	■	■	■	■	■						
823	82				■	■		■	■	■	■	■	■	■	■	■						
104	100				■	■		■	■	■	■	■	■	■	■	■	■	■	■			
124	120				■	■		■	■		■	■	■	■	■	■	■	■	■			
154	150				■			■	■		■	■	■	■	■	■	■	■	■			
184	180				■			■	■		■	■	■	■	■	■	■	■	■			
224	220							■	■		■	■	■	■	■	■	■	■	■			
274	270							■	■		■	■	■	■	■	■	■	■	■			
334	330							■	■		■	■	■	■	■	■	■	■	■			
394	390							■	■		■	■	■	■	■	■	■	■	■			
474	470							■	■		■	■		■	■	■	■	■	■			
564	560							■			■	■		■	■	■	■	■	■			
684	680							■			■	■		■	■	■	■	■	■			
824	820							■			■	■		■	■		■	■	■			
105	1 (µF)							■			■	■		■	■		■	■	■	■	■	■
125	1.2										■						■	■	■	■	■	■
155	1.5										■						■	■	■	■	■	■
185	1.8										■						■	■	■	■	■	■
225	2.2										■						■	■	■	■	■	■
275	2.7																■	■		■	■	■
335	3.3																■	■		■	■	■
395	3.9																■	■		■	■	■
475	4.7																■	■		■	■	■
565	5.6																■			■	■	
685	6.8																■			■	■	
825	8.2																■			■	■	
106	10																			■	■	
126	12																			■		
156	15																			■		
186	18																			■		
226	22																			■		