

ERNI | ERNI MicroSpeed

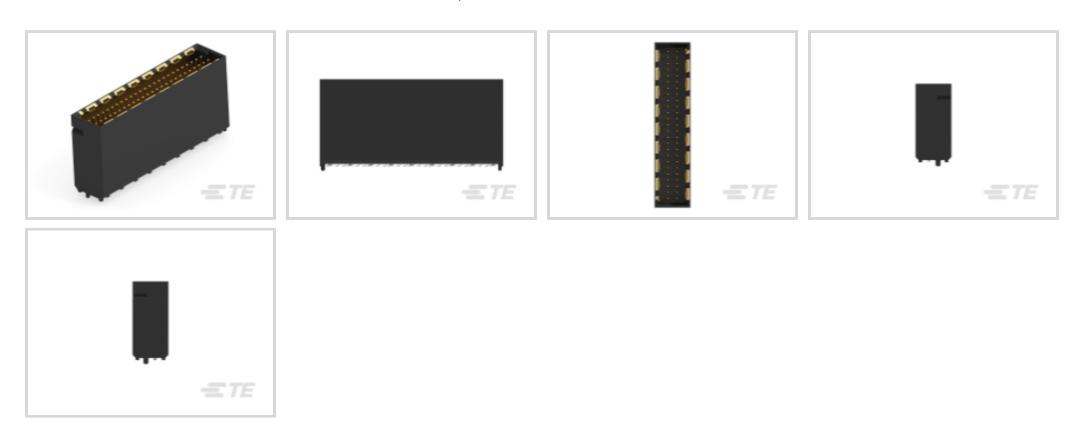
TE Internal #: 224559-E

PCB Mount Header, Vertical, Board-to-Board, 50 Position, 1 mm [. 039 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI MicroSpeed

View on TE.com >



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: PCB Mount Header

PCB Mount Orientation: Vertical Connector System: Board-to-Board

Number of Positions: 50 Number of Rows: 2

Features

Product Type Features

Connector Shape	Rectangular
PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Fully Shrouded
Connector & Contact Terminates To	Printed Circuit Board
Configuration Foatures	

Configuration Features

Comiguration realtires	
Stacking Configuration	Stack Through
Number of Columns	25
Number of Loaded Positions	50
Stackable	Yes
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2



Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 Vrms
Impedance	100 Ω

Signal Characteristics

Data Rate	25 Gb/s	

Body Features

Primary Product Color	Black	
Timary Troduct Gotor	Biadit	

Contact Features

Contact Mating Area Length	2.9 mm[.114 in]
PCB Contact Termination Area Plating Material Thickness	4 – 6 μm[157.48 – 236.22 μin]
Contact Layout	Matrix
Contact Shape & Form	Rectangular
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Pin
Contact Current Rating (Max)	1 A

Termination Features

Termination Method to PCB	Surface Mount
---------------------------	---------------

Mechanical Attachment

Mounting Alignment Feature Length	.65 mm[.025 in]
PCB Mount Alignment Type	Locating Posts
Mating Alignment	With
Mating Alignment Type	Polarization Rib
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

Mating Entry Location	Тор
Centerline (Pitch)	1 mm[.039 in]
Housing Material	LCP

Dimensions



Connector Length	26.95 mm[1.061 in]
Connector Height	12.8 mm[.504 in]
Connector Width	5.85 mm[.23 in]
Profile Height from PCB	12.8 mm[.504 in]
Row-to-Row Spacing	1.5 mm[.059 in]
Stack Height	9 mm[.354 in]
Usage Conditions	
Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
Operation/Application	
Shielded	No
Assembly Process Feature	Pick and Place Cover
Circuit Application	Power, Signal & High Speed Data
Industry Standards	
Compatible With Agency/Standards Products	DIN, UL
Compatible With Approved Standards Products	UL
Industry Standard	IEC
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Reel Diameter	330 mm[12.99 in]
Packaging Quantity	220

Product Compliance

Packaging Method

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per

Tape & Reel



homogenous material. Also BFR/CFR/PVC Free

Solder Process Capability

Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

Compatible Parts



TE Part # 144662-E MSPEED 50 F SMD F4 * AB VV 137 094 * * E



TE Part # 144663-E MSPEED 50 F SMDTHR F4 * AB VV 137 094 *



TE Part # 224512-E MSPEED 50 F SMD F6 * AB VV 137 094 * * E



TE Part # 224513-E MSPEED 50 F SMDTHR F6 * AB VV 137 094 *



MSPEED 50 F SMD F8 * AB VV 137 094 * * E



TE Part # 224515-E MSPEED 50 F SMDTHR F8 * AB VV 137 094 *



TE Part # 224516-E MSPEED 50 F SMD F10 * AB VV 137 094 * *



Also in the Series | ERNI MicroSpeed



Customers Also Bought





TE Part #154741-E SMCQ 26 F AB VV 7-03 CL * 0007 137 E002



TE Part #224512-E MSPEED 50 F SMD F6 * AB VV 137 094 * * E



TE Part #224516-E MSPEED 50 F SMD F10 * AB VV 137 094 * *



H *

SMT, DI

TE TE

TE Part #354065-E SMCB 40 F AB VV 7-03 CL * H007 137 E002



TE Part #354130-E M12 MALE, B CODE, 5P, 10.5MM SMT



TE Part #364767-E M12 MALE, A CODE, 5P, 17MM SMT





TE Part #474331-E M12 MALE, UNI CODE, 5P, 10.5MM SMT, DI



Documents

Product Drawings

MSPEED 50 M SMD M9 * AB W 137 176 * * E

English

MSPEED 50 M SMD M9 * AB VV 137 176 * * E

German

CAD Files

Customer View Model

ENG_CVM_CVM_224559-E_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_224559-E_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_224559-E_1.3d_igs.zip

English

3D PDF

3D

PCB Mount Header, Vertical, Board-to-Board, 50 Position, 1 mm [.039 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI MicroSpeed



By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.