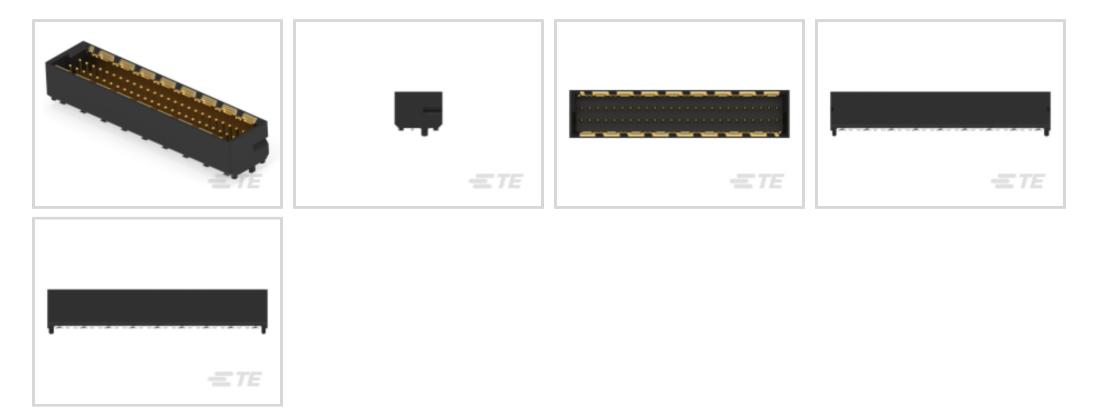


ERNI | ERNI MicroSpeed

TE Internal #: 144680-E PCB Mount Header, Vertical, Board-to-Board, 50 Position, 1 mm [. 039 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI MicroSpeed

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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

E

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 Features	
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

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



Electrical Characteristics

Dielectric Withstanding Voltage (Max)	500 Vrms
Impedance	100 Ω
Signal Characteristics	
Data Rate	25 Gb/s
Body Features	
Primary Product Color	Black
Contact Features	
Contact Mating Area Length	2.9 mm[.114 in]
PCB Contact Termination Area Plating Material Thickness	2 – 6 µm[78.74 – 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 Post & Tail Length	1.2 mm[.047 in]
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

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



Dimensions

Connector Length	26.95 mm[1.061 in]
Connector Height	4.8 mm[.189 in]
Connector Width	5.85 mm[.23 in]
Profile Height from PCB	4.8 mm[.189 in]
Row-to-Row Spacing	1.5 mm[.059 in]
Stack Height	1 mm[.039 in]
Usage Conditions	
Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
Operation/Application	
Shielded	No
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	400
Packaging Method	Tape & Reel
Product Compliance For compliance documentation, visit the product page on TE.com>	
•	Compliant
For compliance documentation, visit the product page on TE.com>	Compliant Compliant
For compliance documentation, visit the product page on TE.com> EU RoHS Directive 2011/65/EU	
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PCB Mount Header, Vertical, Board-to-Board, 50 Position, 1 mm [.039 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, ERNI MicroSpeed



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-onreach

Compatible Parts











Also in the Series | ERNI MicroSpeed



PCB Headers & Receptacles(76)

Customers Also Bought

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







TE Part #354681-E MSPEED 44 F SMD * 90BE AB VV 137 094 * 9



TE Part #484939-E MSPEED 32 M SMD * 90BE AB VV 137 094 * S

Documents

Product Drawings MSPEED 50 M SMD M1 * AB VV 137 094 * * E

English

CAD Files Customer View Model ENG_CVM_CVM_144680-E_1.2d_dxf.zip English Customer View Model ENG_CVM_CVM_144680-E_1.3d_stp.zip English Customer View Model ENG_CVM_CVM_144680-E_1.3d_igs.zip English 3D PDF

3D

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