224562-E ✔ ACTIVE

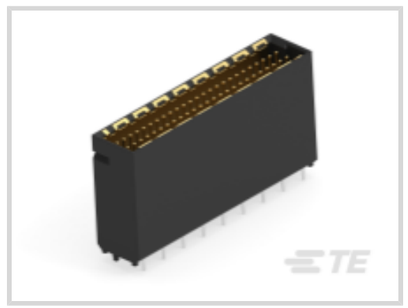
ERNI | ERNI MicroSpeed

TE Internal #: 224562-E

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

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Header**

Connector System: **Board-to-Board**

Number of Positions: **50**

Number of Rows: **2**

Centerline (Pitch): **1 mm [.039 in]**

Features

Product Type Features

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

Configuration Features

Number of Columns	25
Number of Loaded Positions	50
Stacking Configuration	Stack Through
Connector Contact Load Condition	Fully Loaded
Stackable	Yes
Number of Positions	50
Number of Rows	2

PCB Mount Orientation	Vertical

Electrical Characteristics

Impedance	100 Ω
Dielectric Withstanding Voltage (Max)	500 Vrms

Signal Characteristics

Data Rate	25 Gb/s

Body Features

Primary Product Color	Black

Contact Features

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

Termination Features

Termination Post & Tail Length	1.25 mm[.049 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

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

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	1 mm[.039 in]

Housing Material	Liquid Crystal Polymer (LCP)

Dimensions

Connector Width	5.85 mm[.23 in]
Connector Height	13.75 mm[.541 in]
Profile Height from PCB	13.75 mm[.541 in]
Connector Length	26.95 mm[1.061 in]
Row-to-Row Spacing	1.5 mm[.059 in]
Stack Height	10 mm[.394 in]

Usage Conditions

Operating Temperature (Max)	125 °C[257 °F]
Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]

Operation/Application

Assembly Process Feature	Pick and Place Cover
Shielded	No
Circuit Application	Power, Signal & High Speed Data

Industry Standards

Compatible With Agency/Standards Products	DIN, UL
Industry Standard	IEC
Compatible With Approved Standards Products	UL
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Reel Diameter	330 mm[12.99 in]
Packaging Quantity	220
Packaging Method	Tape & Reel

Product Compliance

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

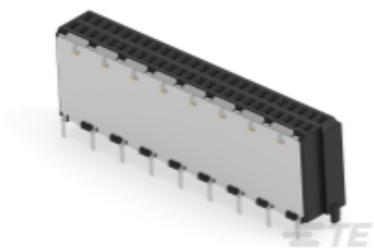
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: FEB 2026 (253)

	Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
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 # 224515-E
MSPEED 50 F SMDTHR F8 * AB VV 137 094 *



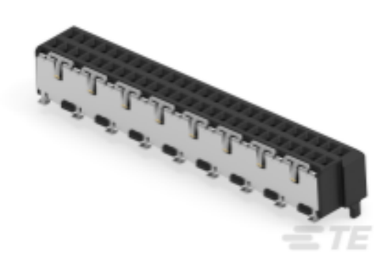
TE Part # 224514-E
MSPEED 50 F SMD F8 * AB VV 137 094 * * E



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



TE Part # 224517-E
MSPEED 50 F SMDTHR F10 * AB VV 137 094 *



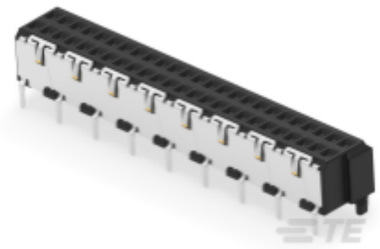
TE Part # 144662-E
MSPEED 50 F SMD F4 * AB VV 137 094 * * E



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

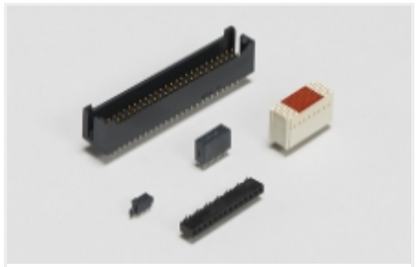


TE Part # 224513-E
MSPEED 50 F SMDTHR F6 * AB VV 137 094 *

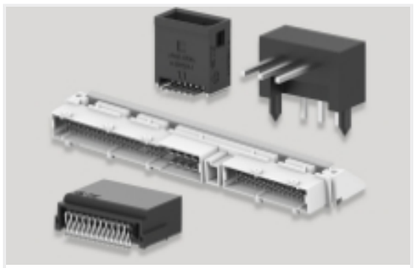


TE Part # 144663-E
MSPEED 50 F SMDTHR F4 * AB VV 137 094 *

Also in the Series | ERNI MicroSpeed



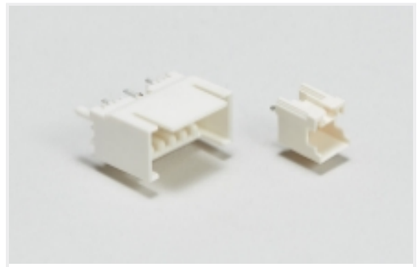
Board-to-Board Headers & Receptacles(60)



PCB Headers & Receptacles(67)



Rectangular Power Connectors(50)



Wire-to-Board Headers & Receptacles (7)

Customers Also Bought



TE Part #1SNA199289R0200
DR2.5/8.N.ADO



TE Part #CAT-HST-TRSA
TRSA Heat Shrink Tubing



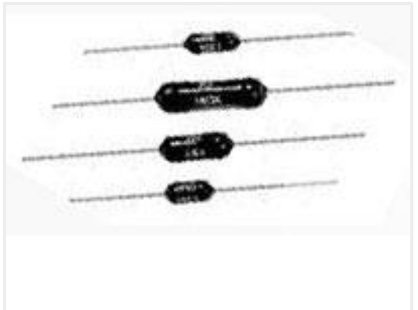
TE Part #188826-4
31P.IEC-F FEM.CONN



TE Part #4-1676966-9
SMW2 10R 5%



TE Part #1-1879212-1
CPF 0402 26K7 0.1% 25PPM 5K RL



TE Part #4-1879619-5
H8 680R 1% 25PPM



TE Part #2169791-1
AMP-LATCH UNV HDR,44P,ACT-PIN, SEL LOAD



TE Part #7-2301994-4
RJ45 JACK INT.MAG. 1GB LED 1X1

TE Part #2-6450862-9
MBXLE VERT RCPT 5ACP + 8S

Documents

Product Drawings

MSPEED 50 M SMDTHR M10 * AB VV 137 176 *

German

CAD Files

Customer View Model

ENG_CVM_CVM_224562-E_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_224562-E_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_224562-E_1.3d_igs.zip

English

3D PDF

3D

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