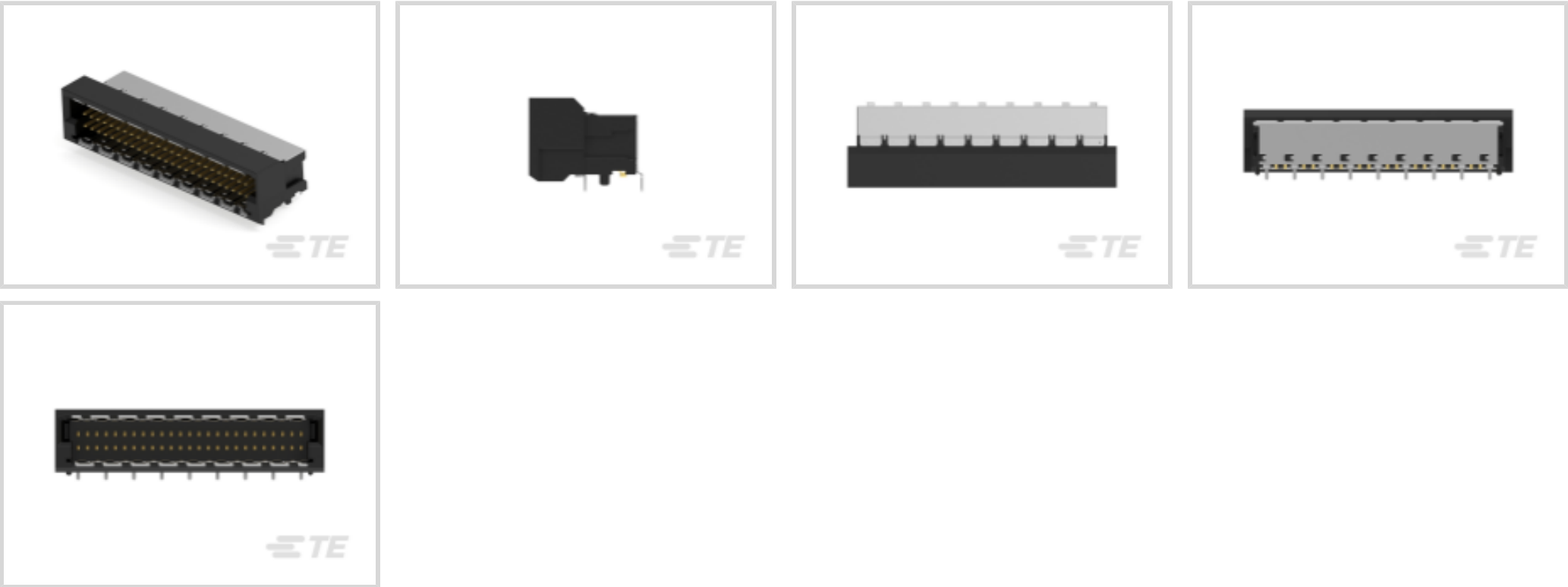




Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Assembly Type: **PCB Mount Header**

PCB Mount Orientation: **Right Angle**

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

Number of Positions: **50**

Number of Rows: **2**

Features

Product Type Features

PCB Connector Assembly Type	PCB Mount Header
Connector System	Board-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Columns	25
Number of Loaded Positions	50
Stackable	No
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Right Angle
Number of Positions	50
Number of Rows	2

Electrical Characteristics



Insulation Resistance	10000 MΩ
Dielectric Withstanding Voltage (Max)	500 Vrms
Impedance	100 Ω

Signal Characteristics

Data Rate	25 Gb/s
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Body Features

Primary Product Color	Black
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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 Post & Tail Length	1.2 mm[.047 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mounting Alignment Feature Length	.7 mm[.027 in]
PCB Mount Alignment Type	Locating Posts
Mating Alignment	With
Mating Alignment Type	Blindmate
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

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



Dimensions

Connector Length	28.95 mm[1.139 in]
Connector Height	6.75 mm[.266 in]
Connector Width	8.8 mm[.346 in]
Row-to-Row Spacing	1.5 mm[.059 in]

Usage Conditions

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

Operation/Application

Shielded	Yes
Circuit Application	Power, Signal & High Speed Data

Industry Standards

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

Packaging Features

Packaging Reel Diameter	330 mm[12.99 in]
Packaging Quantity	400
Packaging Type	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	Not Yet Reviewed
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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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 # 284310-E
MSPEED 50 F SMD * 90BE AB VV 137 094 * *

TE Part # 374720-E
MSPEED 50 F SMDTHR * 90BE AB VV 137 094

TE Part # 374725-E
MSPEED 50 F SMD F4 BE AB VV 137 094 * *

Also in the Series | ERNI MicroSpeed

PCB Headers & Receptacles(51)

Customers Also Bought

TE Part #1888247-2
20 POS SMT CONN, SFP/SFP+, 15A

TE Part #1-1609112-4
15CBE1=F8274

TE Part #5104338-1
A/L LOW PRO HDR 10P VERT HT

TE Part #341002-6
PL 250 REC TERMINAL 18-14 PTPB LP



TE Part #2-215460-0
MICRO-MATCH FEM.SE

TE Part #1759547-1
mSATA/mini PCI-E 7H G/F

TE Part #284699-E
SRCP 1,27 8 M 1 SMD 137 E1 094 * GU-H *

TE Part #294006-E
DRCB 0,80 50 F SMD F4 137 E009 094 GU-H

TE Part #3-5352068-0
Z-PACK/A RAF 110P

Documents

Product Drawings

MSPEED 50 M SMDTHR * 90BE AB WV 137 094

English

CAD Files

Customer View Model

ENG_CVM_CVM_374722-E_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_374722-E_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_374722-E_1.2d_dxf.zip

English

3D PDF

3D

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

Datasheet - ERNI Microspeed 1.0mm Connectors

Datasheet - ERNI Microspeed 1.0mm Connectors

English

Datasheet - ERNI Microspeed 1.0mm Connectors

German