

4-175643-2 ✓ ACTIVE

TE Internal #: 4-175643-2

PCB Mount Header, Vertical, Board-to-Board, 12 Position, 1.25 mm
[.049 in] Centerline, Tin (Sn), Surface Mount, Signal, Black, Tube

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **12**

Number of Rows: **2**

Centerline (Pitch): **1.25 mm [.049 in]**

Features

Product Type Features

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

Configuration Features

Stackable	Yes
Number of Positions	12
Number of Rows	2
PCB Mount Orientation	Vertical
Board-to-Board Configuration	Parallel

Electrical Characteristics

Operating Voltage	50 VAC
Insulation Resistance	2 MΩ
Dielectric Withstanding Voltage (Max)	500 VAC

Body Features

Primary Product Color	Black
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Contact Features

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Mating Pin Diameter	.5 mm[.02 in]
PCB Contact Termination Area Plating Material Thickness	.8 μ m[31.5 μ in]
Contact Layout	Inline
Contact Base Material	Brass
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.8 μ m[31.5 μ in]
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Tab
Contact Current Rating (Max)	.5 A

Termination Features

Termination Post & Tail Diameter	.5 mm[.02 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	With
PCB Mount Retention	Without

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	1.25 mm[.049 in]
Housing Material	Polyphenylene Sulfide (PPS)

Dimensions

Stack Height	5 mm[.197 in]
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Usage Conditions

Housing Temperature Rating	High
Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]

Operation/Application

Circuit Application	Signal
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Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	50
Packaging Method	Tube

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	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Reflow solder capable to 245°C

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



Customers Also Bought



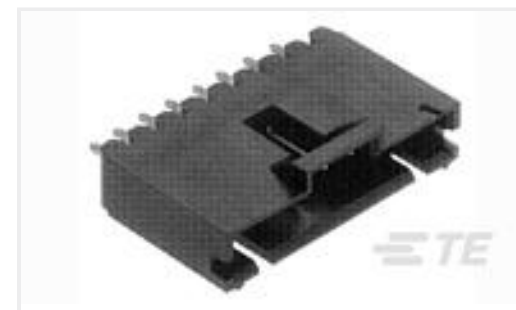
TE Part #YDTS32F23NV0010000
DUST COVER ASSEM



TE Part #0969750001
TMS-SCE-1K-3/32-2.0-9



TE Part #5-103166-3
10 MODII HDR DRRA SHRD LF



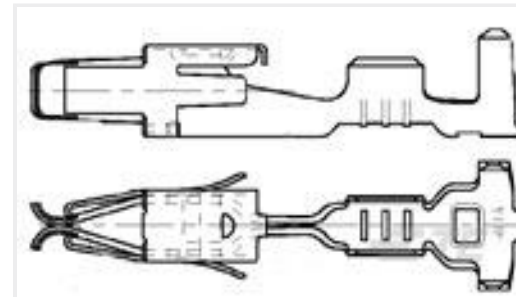
TE Part #103638-7
08 MTE HDR SRST LATCH .100CL



TE Part #5-104450-3
04 MTE HDR SRST LATCH W/HLDWN



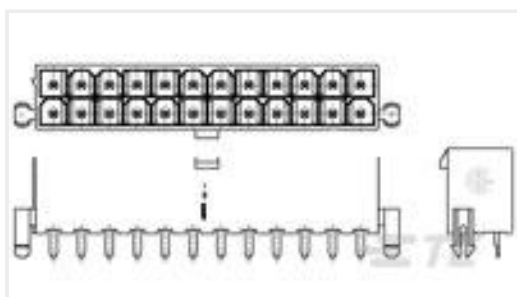
TE Part #5-146285-3
03 MODII HDR SRST B/A .100CL



TE Part #185026-1
JPT F REC 2.8 Contact SWS Sn



TE Part #3-794618-6
06P MICRO MNL ASSY R/A HDR LF



TE Part #1586039-4
4P VAL-U-LOK VRT HDR W/P V2



TE Part #1676186-2
RN 0805 143K 0.1% 10PPM 1KRL

Documents

Product Drawings

[1.25FP,P12,DL,B,N,TU,5.00,6.90](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_4-175643-2_E.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_4-175643-2_E.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_4-175643-2_E.3d_stp.zip](#)

English

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

Product Specifications



Product Specification

Japanese

AMP MINI CCOMMON TERMINATION (CT), CONNECTOR, 1.5mm PITCH, M/T TYPE, LEAD FREE VERSION

Japanese

AMP 1.25mm F-P Connector (Board To Board)

Japanese

Product Specification

Japanese