



Free Height

TE Internal #: 316229-3  
PCB Mount Header, Right Angle, Board-to-Board, 80 Position, .8 mm [.031 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, Free Height

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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: **80**  
Centerline (Pitch): **.8 mm [.031 in]**

Features

Electrical Characteristics

Operating Voltage	100 VAC
Insulation Resistance	2 MΩ
Dielectric Withstanding Voltage (Max)	500 VAC

Dimensions

Connector Height	5.12 mm[.202 in]
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Packaging Features

	2 in
Packaging Method	Tube, Box

Usage Conditions

Housing Temperature Rating	High
Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]

Operation/Application

Assembly Process Feature	None
Circuit Application	Signal

Mechanical Attachment

Mounting Alignment Feature Length	2 mm[.079 in]
Mating Alignment Type	Polarization
PCB Mount Retention Type	Housing Peg



PCB Mount Alignment Type	Housing Peg
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Termination Features

Rectangular Termination Post & Tail Width	.25 mm[.01 in]
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Termination Post & Tail Length	2.38 mm[.093 in]
Termination Method to PCB	Through Hole - Solder

Contact Features

PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.3 µm[11.81 µin]
Mating Tab Width	.4 mm[.016 in]
PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
Contact Layout	Inline
Contact Base Material	Brass
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold
Contact Type	Tab
Contact Current Rating (Max)	.5 A

Housing Features

Housing Material	Matte
Centerline (Pitch)	.8 mm[.031 in]

Configuration Features

Stackable	Yes
PCB Mount Orientation	Right Angle
Number of Positions	80

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

Body Features

Primary Product Color	Natural
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Industry Standards

UL Flammability Rating	UL 94V-0
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Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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 2024 (241) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Wave solder capable to 265°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

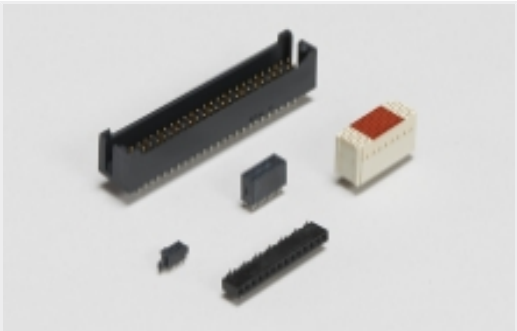




TE Part # CAT-313-RCB80  
Free Height Receptacle Conn: Board-Board, Vertical, 80, 0.8mm

Also in the Series

Free Height



Board-to-Board Headers & Receptacles(751)



PCB Headers & Receptacles(751)

Customers Also Bought



TE Part #6339167-3  
ASSY,SHLD,1X4,MJ,WAVE PNL



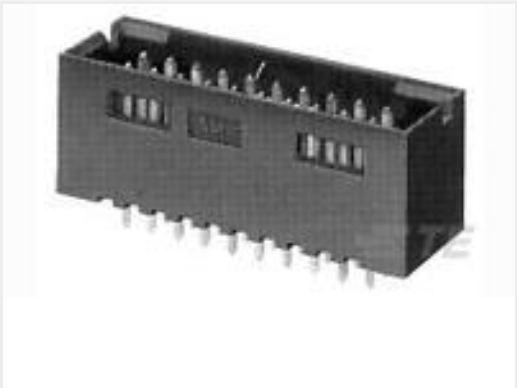
TE Part #8-1625868-8  
RP 2A 0.25W 43R2 0.1% 25PPM 1K RL



TE Part #8-2176091-6  
RP 2A 0.25W 464R 0.1% 25PPM 1K RL



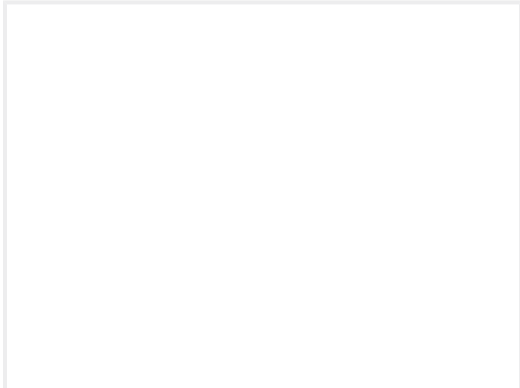
TE Part #6-2176381-0  
RQ 0805 51K1 0.1% 10PPM 5K RL



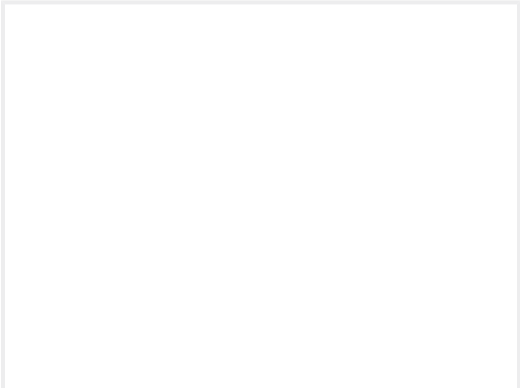
TE Part #5-103169-5  
14 MODII HDR DRST SHRD .100CL



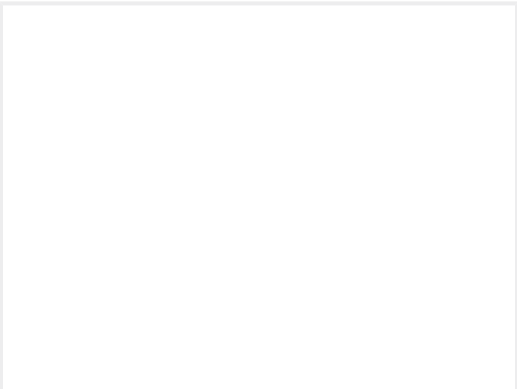
TE Part #2-1623703-0  
CPG0603 10K 1% 50PPM



TE Part #2155878-4  
BOARD SUPPORT, PRBHV



TE Part #2155878-5  
BOARD SUPPORT, PRBIF



TE Part #2155878-6  
BOARD SUPPORT, TX



TE Part #5-2176380-2  
RQ 0805 3K92 0.1% 10PPM 5K RL



Documents

Product Drawings

0.8 FH PLUG ASSY 80P R/ANGLE

Japanese

CAD Files

3D PDF

English

Customer View Model

ENG\_CVM\_316229-3\_F.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_316229-3\_F.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_316229-3\_F.3d\_stp.zip

English

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

Datasheets & Catalog Pages

Fine Pitch Stacking Connectors - 0.8mm Free Height (FH) Connectors

English

Product Specifications

Product Specification

English