5177985-3 ✔ ACTIVE

Free Height

TE Internal #: 5177985-3

PCB Mount Receptacle, Vertical, Board-to-Board, 80 Position, .8 mm [.031 in] Centerline, Gold, Surface Mount, Signal, Natural, Free Height

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Receptacle Conn: Board-Board, Vertical, 80, 0.8mm







EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

PCB Connector Assembly Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

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

All Free Height Receptacle Conn: Board-Board, Vertical, 80, 0.8mm (23)

Features

Packaging Features

	.5 in
Packaging Quantity	1000
Packaging Method	Tape & Reel

Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Type Features

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

Configuration Features

Board-to-Board Configuration	Parallel
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	80

Electrical Characteristics

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

Body Features

Assembly Process Feature Material	Steel
Primary Product Color	Natural

Contact Features

PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.2 µm[8 µin]
Mating Tab Width	.4 mm[.016 in]
PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
Contact Shape & Form	Square
Contact Layout	Inline
Contact Base Material	Copper Alloy
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Gold
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Width	.3 mm[.012 in]
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

Mounting Alignment Feature Length	.5 mm[.02 in]
Mating Alignment Type	Polarization

PCB Mount Alignment Type	Positioning Bosses
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Mating Entry Location	Top
Housing Material	Matte
Centerline (Pitch)	.8 mm[.031 in]

Dimensions

Stack Height	8 mm, 7 mm, 6 mm, 5 mm[.315 in][.236 in][.197 in][.276 in]
Connector Height	5 mm[.197 in]

Usage Conditions

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

Operation/Application

Assembly Process Feature	Pick and Place Cover
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

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 2024 (241) 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

Reflow solder capable to 260°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-PCB80
Free Height Plug Connector: Board-Board, Vertical, 80, 0.8mm



TE Part # 5179029-3
0.8FH,P06H.5,080,08/Sn,TU

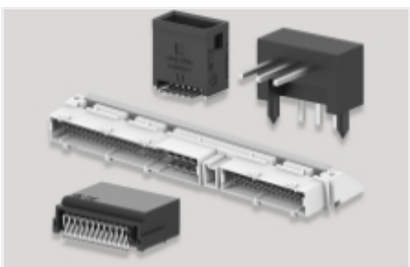


TE Part # 316229-3
0.8 FH PLUG ASSY 80P R/ANGLE



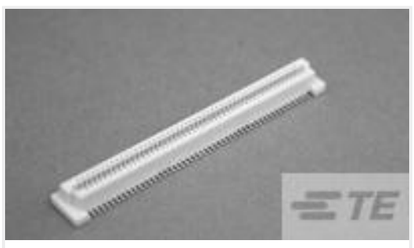
TE Part # 84614-3
0.8FH,P05H.5,080,30/SP,TU

Also in the Series | Free Height

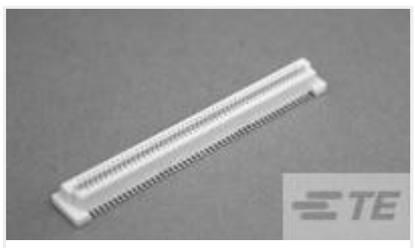


PCB Headers & Receptacles(751)

Customers Also Bought



TE Part #5177985-2
0.8FH,R05H.5,060,08/Sn,TR,SC



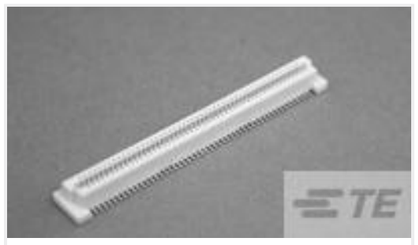
TE Part #5353999-5
0.8FH,R05H.5,120,30/Sn,TR,SC



TE Part #5767171-1
MICTOR RECEPT ASSY, 38 POS. TA



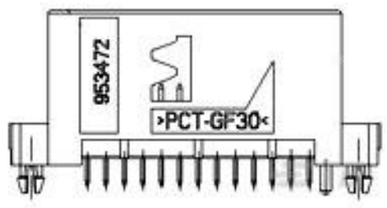
TE Part #5-103735-6
07 MTE HDR SRST LATCH .100CL



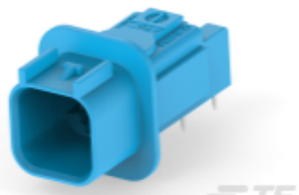
TE Part #5177985-8
0.8FH,R05H.5,160,08/Sn,TR,SC



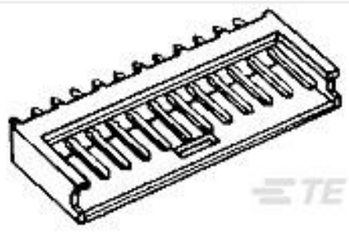
TE Part #4-2177370-3
12POS,TAB 0.5X0.4,HEADER ASSY, CODA



TE Part #953472-2
26pos MQS .63 header 180deg THR



TE Part #1802162-3
1-PORT MATENET HDR 90DEG SEALED, COD C



TE Part #280370-3
2P AMPMODU II SHRD HDR, ST, 0.76 AU

TE Part #2209075-1

Documents

CAD Files

3D PDF

3D

Customer View Model
ENG_CVM_CVM_5177985-3_O.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_5177985-3_O.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_5177985-3_O.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

Product Specification

English