

0.8FH,P05H.5,040,08/Sn,TR,SC

✓ ACTIVE

TE Part # 5177986-1

TE Internal #: 5177986-1

[View on TE.com >](#)



Connectors > PCB Connectors > Board-to-Board Connectors > Board-to-Board Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **40**

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

Features

Product Type Features

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

Configuration Features

Number of Rows	2
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	40
Board-to-Board Configuration	Mezzanine

Electrical Characteristics

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

Body Features



Cover Material	Steel
----------------	-------

Contact Features

Contact Layout	Inline
PCB Contact Termination Area Plating Material Thickness	2 µm[78.74 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Finish	Matte
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Brass
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.2 µm[8 µin]
Contact Type	Tab
Contact Current Rating (Max)	.5 A

Termination Features

Termination Method to Printed Circuit Board	Surface Mount
---	---------------

Mechanical Attachment

PCB Mount Alignment Type	Positioning Bosses
Locating Post Length	.5 mm[.02 in]
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	Without
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

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

Dimensions

Connector Height	5 mm[.197 in]
Stack Height	5 mm, 9 mm, 13 mm, 17 mm[.197 in][.354 in][.512 in][.669 in]

Usage Conditions

--	--



High Temperature Compatible	Yes
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
------------------------	----------

Packaging Features

	.5 in
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	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2019 (197) Candidate List Declared Against: JAN 2019 (197)
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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.



Compatible Parts



Board-to-Board Headers & Receptacles(23)

Customers Also Bought



TE Part #2007263-1
SFP+ 1x2 Cage Assembly



TE Part #350826-1
04P UMNL HDR ASSY PC 94VO



TE Part #1489951-1
XFP CAGE ASSEMBLY



TE Part #640901-1
05P UMNL SOK HDR ASSY 94VO



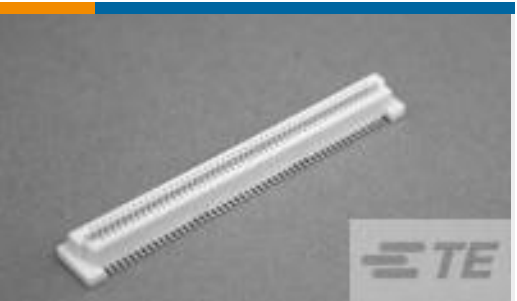
TE Part #5177986-8
0.8FH,P05H.5,160,08/Sn,TR,SC



TE Part #5-5179180-1
0.8FH,R09H.5,040,08/Sn,TR,SC



TE Part #1367073-2
20 POS SMT CONN, SFP, 30AU



TE Part #5177985-1
0.8FH,R05H.5,040,08/Sn,TR,SC



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



TE Part #1734450-1
CF HDR Typell,50pos,SMT, 2.2mm, W/O mylar

Documents

Product Drawings
0.8FH,P05H.5,040,08/Sn,TR,SC

English

CAD Files
3D PDF

3D



Customer View Model
[ENG_CVM_CVM_5177986-1_D.2d_dxf.zip](#)
English

Customer View Model
[ENG_CVM_CVM_5177986-1_D.3d_igs.zip](#)
English

Customer View Model
[ENG_CVM_CVM_5177986-1_D.3d_stp.zip](#)
English

Datasheets & Catalog Pages
[Fine Pitch Stacking Connectors - 0.8mm Free Height \(FH\) Connectors](#)
English

Product Specifications
[Product Specification](#)
English

Product Environmental Compliance
[TE Material Declaration](#)
English