

5179031-1 ✓ ACTIVE



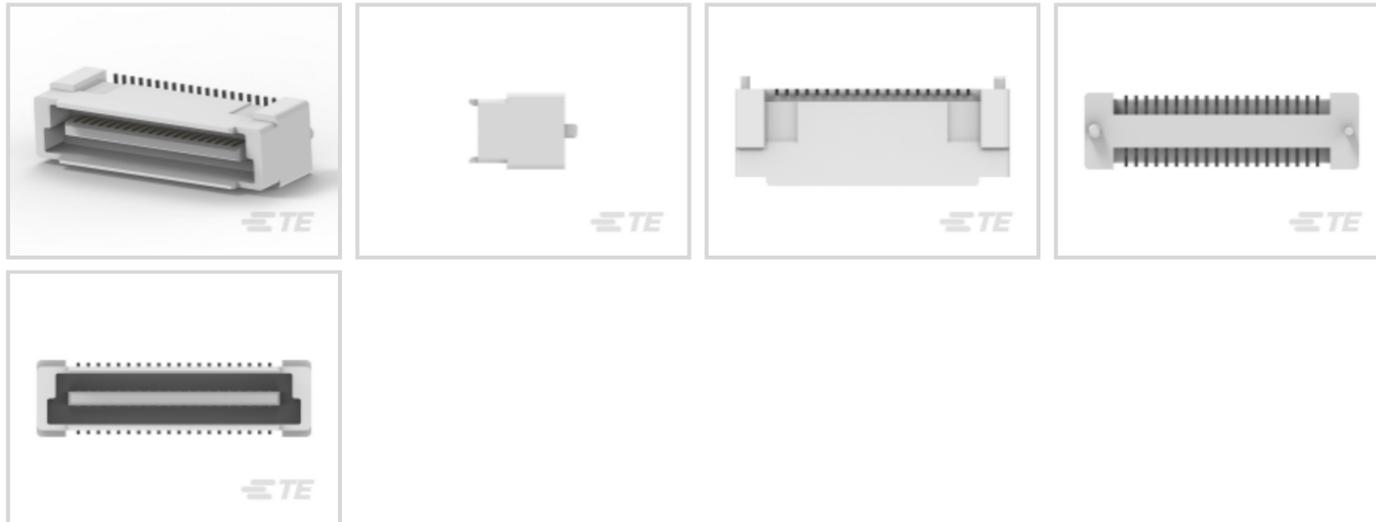
Free Height

TE Internal #: 5179031-1

PCB Mount Header, Vertical, Board-to-Board, 40 Position, .8 mm [.031 in] Centerline, Fully Shrouded, Gold (Au), Surface Mount, Signal, Free Height

[View on TE.com >](#)

Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Plug Connector: Board-Board, Vertical, 40, 0.8mm



PCB Connector Type: **PCB Mount Header**

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

Number of Positions: **40**

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

PCB Mount Orientation: **Vertical**

[All Free Height Plug Connector: Board-Board, Vertical, 40, 0.8mm \(15\)](#)

Features

Product Type Features

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

Configuration Features

Stackable	Yes
Number of Positions	40
PCB Mount Orientation	Vertical
Board-to-Board Configuration	Parallel

Electrical Characteristics



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

Body Features

Primary Product Color	Natural
-----------------------	---------

Contact Features

PCB Contact Termination Area Plating Material Finish	Matte
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 Finish	Matte
Contact Mating Area Plating Material Thickness	.2 μm[8 μin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Tab
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Width	.25 mm[.01 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]
PCB Mount Alignment Type	Positioning Bosses
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)	.8 mm [.031 in]
--------------------	-----------------

Housing Material	Matte
------------------	-------

Dimensions

Connector Height	8 mm [.315 in]
------------------	----------------

Stack Height	8 mm, 12 mm, 16 mm, 20 mm [.315 in] [.472 in] [.63 in] [.787 in]
--------------	--

Usage Conditions

Housing Temperature Rating	High
----------------------------	------

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

Operation/Application

Circuit Application	Signal
---------------------	--------

Industry Standards

UL Flammability Rating	UL 94V-0
------------------------	----------

Packaging Features

	.5 in
--	-------

Packaging Quantity	22
--------------------	----

Packaging Method	Box, 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	Low Halogen - Br, Cl, F < 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

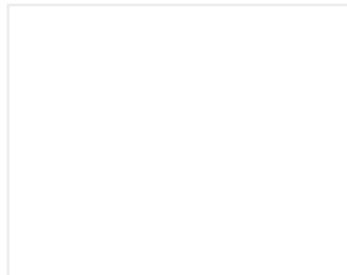


EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical 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

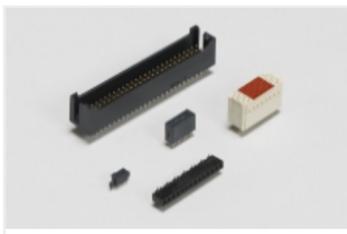


TE Part # CAT-313-RCB40
Free Height Receptacle Conn: Board-Board, Vertical, 40, 0.8mm

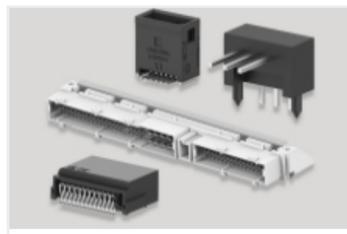


TE Part # 1-5353999-1
0.8FH,5H REC,40P,30/Sn,TR,WITHOUT COVER

Also in the Series | Free Height



Board-to-Board Headers & Receptacles(739)



PCB Headers & Receptacles(739)

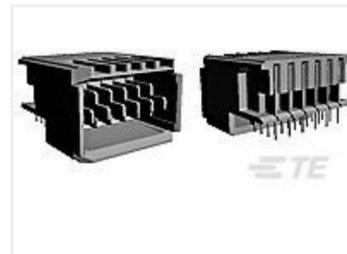
Customers Also Bought



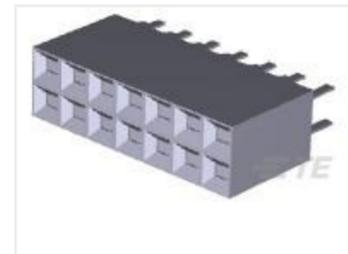
TE Part #TAA541B1411-020
M12A4-MS-PVC-2.0M



TE Part #120953-1
TE UPM Ver Receptacle 4P HC Power



TE Part #120954-1
TE UPM R/A Header 4P HC Power, LLLL



TE Part #5-534206-7
14 MODII VRT DR CE 100/115



TE Part #1622766-1
LR2 1% 5K1



TE Part #5103310-6
A/L LOW PRO HDR 26P RA BLACK



TE Part #5-5179009-2
0.8FH,R09H.5,060,08/Sn,TU



TE Part #5179029-1
0.8FH,P06H.5,040,08/Sn,TU



TE Part #5179031-2
0.8FH,P08H.5,060,08/Sn,TU



TE Part #T4171110004-002
M12,REAR MOUNTING,FEMALE,A,4P,
0.5M WIRE

Documents

Product Drawings

[0.8FH,P08H.5,040,08/Sn,TU](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5179031-1_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5179031-1_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5179031-1_C.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

5179031-1

PCB Mount Header, Vertical, Board-to-Board, 40 Position, .8 mm [.031 in] Centerline,
Fully Shrouded, Gold (Au), Surface Mount, Signal, Free Height

