1FHR,64,30A/S,S,N,S08,09,10 ✔ ACTIVE

TE Part # 5120521-1

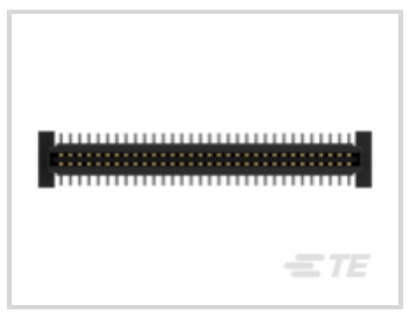
TE Internal #: 5120521-1

View on TE.com >

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







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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **64**

Centerline (Pitch): **1 mm [.039 in]**

Features

Product Type Features

Series	1mm FH
PCB Connector Assembly Type	PCB Mount Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Rows	2
Number of Columns	32
Stackable	Yes
PCB Mount Orientation	Vertical
Number of Positions	64
Board-to-Board Configuration	Mezzanine

Electrical Characteristics

Insulation Resistance	2 MΩ
Operating Voltage	250 VAC

Signal Characteristics

Differential Signaling	Yes

Contact Features

Contact Layout	Inline
Contact Underplating Material Thickness	1.27 µm[50 µin]
PCB Contact Termination Area Plating Material Thickness	3.81 µm[150 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Shape	Square
Contact Configuration	Single Beam
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Type	Socket
Contact Current Rating (Max)	1 A

Termination Features

	.081 in
Termination Method to Printed Circuit Board	Surface Mount

Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
Mating Retention	Without
PCB Mount Retention Type	None
Mating Alignment	Without
Mating Alignment Type	None
PCB Mount Retention	Without
PCB Mount Alignment	With

Housing Features

Mating Entry Location	Top
Centerline (Pitch)	1 mm[.039 in]
Housing Color	Black
Housing Material	Thermoplastic

Dimensions

Connector Width	3.81 mm[150 in]

Connector Length	34.22 mm[1.347 in]
Connector Height	5.37 mm[.211 in]
Stack Height	8 mm, 9 mm, 10 mm[.394 in]

Usage Conditions

Operating Temperature Range	-55 – 110 °C[-67 – 230 °F]

Operation/Application

Circuit Application	Signal

Industry Standards

Industry Standard	IEEE 1386
UL Flammability Rating	UL 94V-0
Agency/Standard	CSA, UL
CSA Certified	Yes
CSA File Number	LR7189
UL File Number	E28476
UL Rating	Listed

Packaging Features

Packaging Quantity	650
Packaging Method	Tape & Reel

Product Compliance

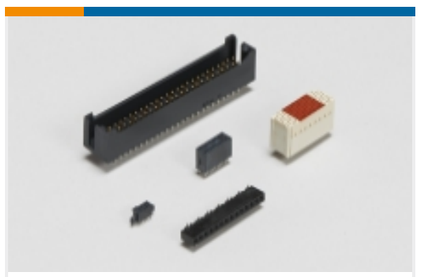
For compliance documentation, visit the product page on TE.com>

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 2018 (181)
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

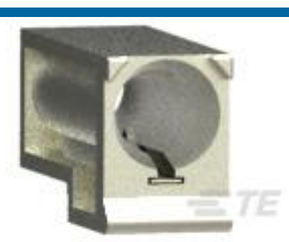
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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(34)

Customers Also Bought



TE Part #1-1469492-1
MULTIGIG RT 9MM GUIDE /ESD 0 DEG



TE Part #1410946-1
MULTI-GIG SOC. CAP SCREW, CUSTOMIZED HDW



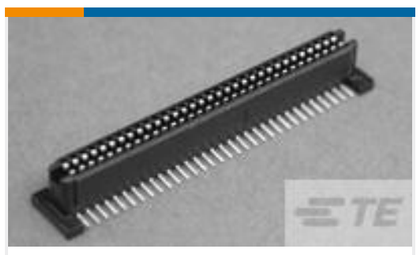
TE Part #1410189-3
MULTIGIG RT T2 7RW H-LFT,ET2



TE Part #1410186-1
MULTIGIG RT T2 .8" BP H-LFT



TE Part #1410142-1
MULTIGIG RT T2 .8" BP FULL RGH



TE Part #120521-1
1FHR,64,30A/P,S,N,S08,09,10



TE Part #120527-1
1FHP,64,30A/P,S,N,S10,12,13,15



TE Part #5352171-1
Z-PACK/B19 RAF 95P



TE Part #1-1469491-2
MULTIGIG RT GUIDEPIN, 9MM 2.60



TE Part #5120527-1
1FHP,64,30A/S,S,N,S10, 12,13,15

Documents

Product Drawings

1FHR,64,30A/S,S,N,S08,09,10

English

CAD Files

Customer View Model

ENG_CVM_CVM_5120521-1_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5120521-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5120521-1_A.3d_stp.zip

English

Datasheets & Catalog Pages

Fine Pitch Stacking Connectors - 1.0mm Free Height (FH) (IEEE 1386) Connectors

English

Product Specifications

Application Specification

English

Product Environmental Compliance

TE Material Declaration

English