

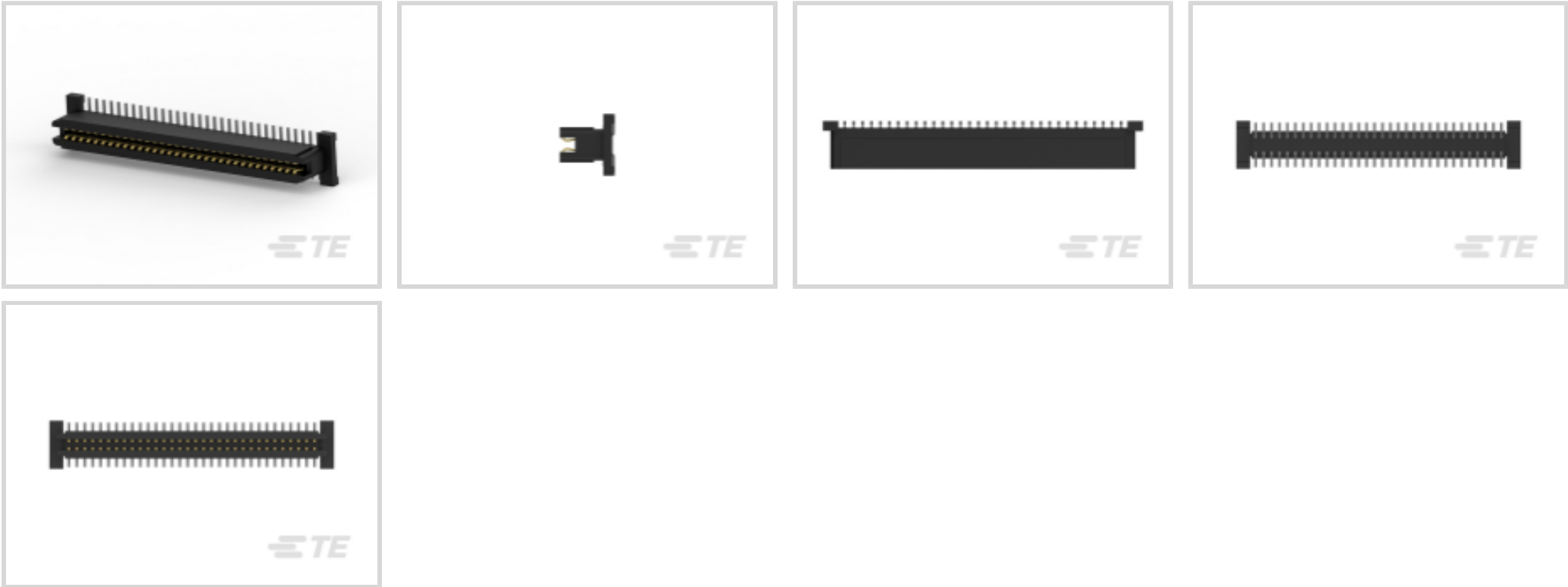


Free Height

TE Internal #: 1-5120528-1
PCB Mount Receptacle, Vertical, Board-to-Board, 64 Position, 1 mm
[.039 in] Centerline, Gold, Surface Mount, Signal, Black, Tape &
Reel, Free Height

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Connectors > PCB Connectors > PCB Headers & Receptacles > Free Height Receptacle Conn: Board-Board, Vertical, 64, 1mm



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]**
[All Free Height Receptacle Conn: Board-Board, Vertical, 64, 1mm \(57\)](#)

Features

Electrical Characteristics

Operating Voltage	250 VAC
Insulation Resistance	2 MΩ

Signal Characteristics

Differential Signaling	Yes
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Dimensions

Stack Height	9 mm, 8 mm, 10 mm[.394 in]
Connector Width	3.81 mm[150 in]
Connector Height	5.37 mm[.211 in]
Connector Length	34.22 mm[1.347 in]

Packaging Features

Packaging Quantity	650
Packaging Method	Tape & Reel



Industry Standards

Compatible With Agency/Standards Products	UL, CSA
Industry Standard	IEEE 1386
UL Rating	Listed
Compatible With Approved Standards Products	UL E28476, CSA LR7189
UL Flammability Rating	UL 94V-0

Operation/Application

Assembly Process Feature	Pick and Place Cover
Circuit Application	Signal

Mechanical Attachment

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

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

Contact Features

Contact Underplating Material Thickness	1.27 μm[50 μin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	1.27 μm[50 μin]
Mating Tab Width	.63 mm[.024 in]
PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
Contact Shape & Form	Square, Single Beam
Contact Layout	Inline
Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin



Contact Mating Area Plating Material	Gold
Contact Type	Socket
Contact Current Rating (Max)	1 A

Housing Features

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

Configuration Features

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

Product Type Features

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

Body Features

Primary Product Color	Black
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Usage Conditions

Operating Temperature Range	-55 – 110 °C[-67 – 230 °F]
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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 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 # 120534-1
1FHP,64,30A/P,N,C,S10,12,13,15

TE Part # 120526-1
1FHP,64,30A/P,S,N,S09,11,14

TE Part # CAT-314-PCB64
Free Height Plug Connector: Board-Board, Vertical, 64, 1mm

TE Part # CAT-314-RCB64
Free Height Receptacle Conn: Board-Board, Vertical, 64, 1mm

Also in the Series | Free Height

Board-to-Board Headers & Receptacles(751)

PCB Headers & Receptacles(751)

Customers Also Bought



TE Part #5-1676966-7
SMW2 22R 5%

TE Part #1-2102061-0
Mezalok, Socket, 114 p, 18 mm, 50 Au, LF

TE Part #1-1469492-3
MULTIGIG RT 9MM GUIDE/ESD 90 DEG

TE Part #1410956-1
MULTIGIG RT GUIDE PIN KIT ASSEMBLY

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

TE Part #5-100525-6
Z-PACK M.CODING KEY

TE Part #2042088-1
Vert.Male, Telcordia L2

TE Part #2355825-4
Mezalok, Socket, 114 p, 12 mm, 50 Au, LF

TE Part #1086009-1
2399 5012 54

TE Part #1759503-1
mini PCI-E 8H Type I PKG G/F

Documents

Product Drawings
1FHR,64,50A/S,N,C,S08,09,10

English

CAD Files
Customer View Model
ENG_CVM_1-5120528-1_A.3d_igs.zip

English

Customer View Model
ENG_CVM_1-5120528-1_A.3d_stp.zip

English

Customer View Model
ENG_CVM_1-5120528-1_A.2d_dxf.zip

English

3D PDF

English

Datasheets & Catalog Pages



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

English

Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards Datasheet 3-1773445-8

English

Product Specifications

Application Specification

English