

5146893-1 ✓ ACTIVE



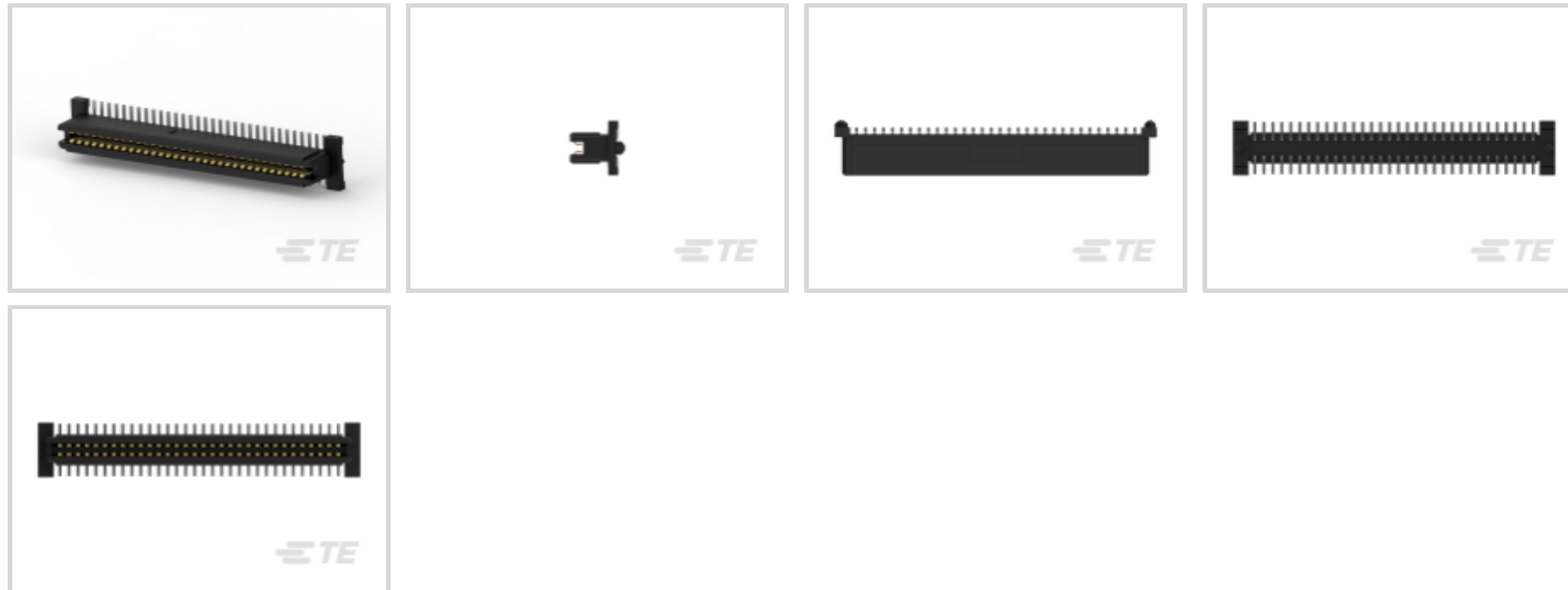
Free Height

TE Internal #: 5146893-1

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

[View on TE.com >](#)

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



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, 64, 1mm \(57\)](#)

Features

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

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



Number of Positions	64
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Electrical Characteristics

Operating Voltage	250 VAC
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Insulation Resistance	2 MΩ
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Signal Characteristics

Differential Signaling	Yes
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Body Features

Primary Product Color	Black
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Contact Features

Contact Underplating Material Thickness	1.27 μm[50 μin]
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PCB Contact Termination Area Plating Material Finish	Matte
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Contact Mating Area Plating Material Thickness	.76 μm[29.92 μin]
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Mating Tab Width	.63 mm[.024 in]
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PCB Contact Termination Area Plating Material Thickness	3.81 μm[150 μin]
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Contact Shape & Form	Single Beam
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Contact Layout	Inline
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Contact Base Material	Phosphor Bronze
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Mating Tab Thickness	.2 mm[.008 in]
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PCB Contact Termination Area Plating Material	Tin
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Contact Mating Area Plating Material	Gold
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Contact Type	Socket
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Contact Current Rating (Max)	1 A
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Termination Features

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

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

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

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

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

Assembly Process Feature	Pick and Place Cover
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Circuit Application	Signal
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Industry Standards

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

Packaging Quantity	650
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Packaging Method	Tape & Reel
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	
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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-314-PCB64
 Free Height Plug Connector: Board-Board, Vertical, 64, 1mm



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



TE Part # 120534-1
 1FHP,64,30A/P,N,C,S10,12,13,15

Also in the Series | Free Height

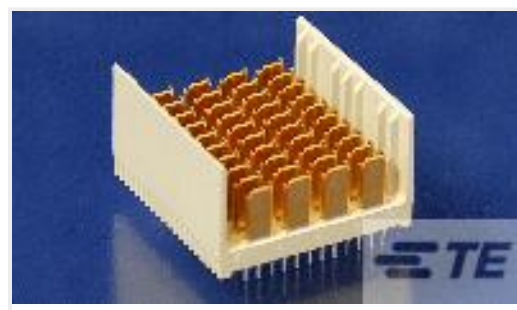


PCB Headers & Receptacles(751)

Customers Also Bought



TE Part #5554217-4
RCPT ASSY, 50 POS, VERT MTG, SHLD



TE Part #6469002-1
HM-ZD 4PR HDR 80P 5.2MM



TE Part #6469048-1
HMZD 4PR RA HDR 80P ASSY LF



TE Part #2065657-1
zd Plus, 4 pair, receptacle assy



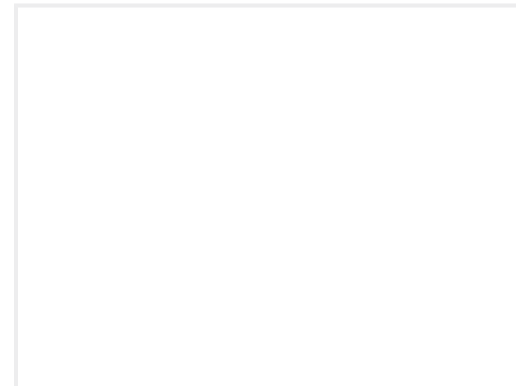
TE Part #2170806-4
CAGE ASSEMBLY, 1X2, QSFP28,
SPRING, HS



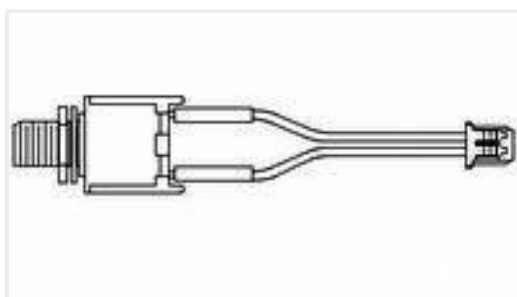
TE Part #1-5767096-0
MICT, REC, 114, ASY, .025, TAPE, CAP



TE Part #2204866-1
RACK 500A (250+&250-) ORV2 Output
Conn



TE Part #5148334-2
ASSY, PIN, EURO, "C", L-FREE, 23/96,
SEL.LOAD,



TE Part #1559528-1
30-W2297F04B, CABLE ASSEMBLY

Documents

Product Drawings

[1FHR,64,30A/S,S,C,S08,09,10](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_5146893-1_A.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_5146893-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5146893-1_A.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 - 1.0mm Free Height (FH) (IEEE 1386) Connectors

English

Product Specifications

Application Specification

English