146893-1 ✔ ACTIVE

Free Height

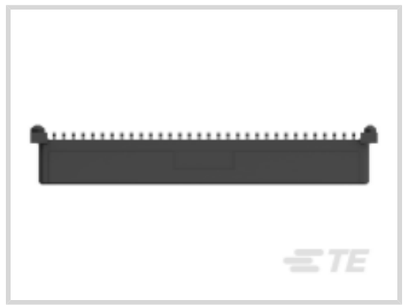
TE Internal #: 146893-1

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

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles







PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **64**

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

PCB Mount Orientation: **Vertical**

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

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

Electrical Characteristics

Operating Voltage	250 VAC
Insulation Resistance	2 MΩ

Signal Characteristics

Differential Signaling	Yes

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material Thickness	1.27 µm[50 µin]
Mating Tab Width	.63 mm[.024 in]
PCB Contact Termination Area Plating Material Thickness	3.81 – 6.35 µm[150 – 250 µin]
Contact Shape & Form	Single Beam
Contact Layout	Inline
Contact Mating Area Length	2 mm
Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.2 mm[.008 in]
PCB Contact Termination Area Plating Material	Tin-Lead
	29.92 µin
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Tab
Contact Current Rating (Max)	1 A

Termination Features

Rectangular Termination Post & Tail Width	.3 mm[.011 in]
Rectangular Termination Post & Tail Thickness	.2 mm[.008 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Width	3.81 mm[.15 in]
Connector Height	5.37 mm[.211 in]
Connector Length	34.22 mm[1.347 in]
Stack Height	8 mm, 9 mm, 10 mm[.394 in]

Usage Conditions

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

Operation/Application

Assembly Process Feature	Pick and Place Cover

Industry Standards

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

Packaging Features

Packaging Method	Tape & Reel

Product Compliance

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

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量超出标准 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Pb (13% in 4690948374) **Article Safe Usage Statements:** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
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



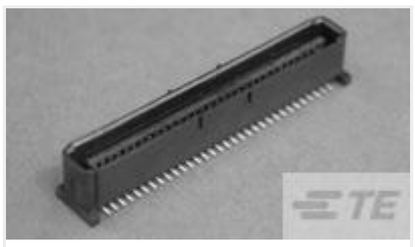
TE Part # 5120534-1
1FHP,64,30A/S,N,C,S10,12,13,15



TE Part # 1-5120527-1
1FHP,64,50A/S,S,N,S10,12,13,15



TE Part # 146888-1
1FHP,64,30A/P,S,C,S10,12,13,15



TE Part # 5120525-1
1FHP,64,30A/S,S,N,S08



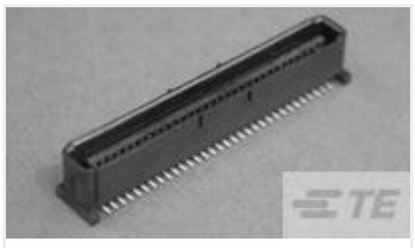
TE Part # 5146897-1
1FHP,64,30A/S,S,C,S08



TE Part # 1-120527-1
1FHP,64,50A/P,S,N,S10,12,13,15



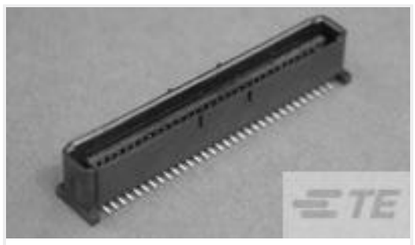
TE Part # 120533-1
1FHP,64,30A/P,N,C,S09,11,14



TE Part # 120525-1
1FHP,64,30A/P,S,N,S08



TE Part # 5146898-1
1FHP,64,30A/S,S,C,S09,11,14



TE Part # 146897-1
1FHP,64,30A/P,S,C,S08



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



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



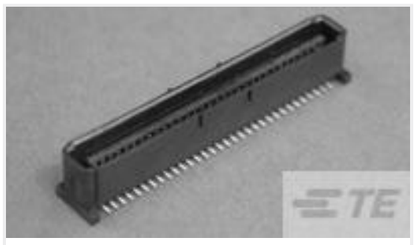
TE Part # 120534-1
1FHP,64,30A/P,N,C,S10,12,13,15



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



TE Part # 5120533-1
1FHP,64,30A/S,N,C,S09,11,14



TE Part # 120532-1
1FHP,64,30A/P,N,C,S08



TE Part # 1-5120528-1
1FHR,64,50A/S,N,C,S08,09,10



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

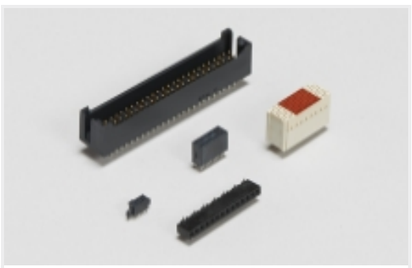


TE Part # 146898-1
1FHP,64,30A/P,S,C,S09,11,14

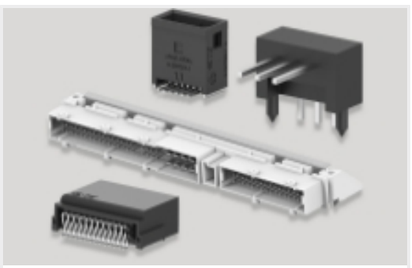


TE Part # 5146888-1
1FHP,64,30A/S,S,C,S10,12,13,15

Also in the Series | Free Height



Board-to-Board Headers & Receptacles(736)



PCB Headers & Receptacles(736)

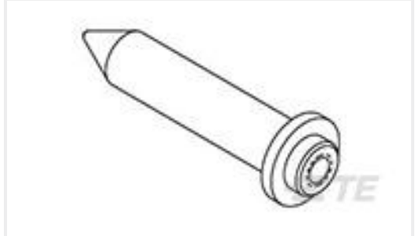
Customers Also Bought



TE Part #CAT-HST-RW175
RW-175 Heat Shrink Tubing



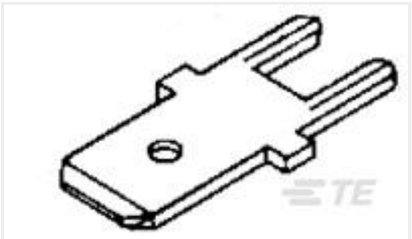
TE Part #53050
TERMINAL,PIDG R IR 26 6



TE Part #120985-1
UNV PWR MDL, GUIDE PIN PLTD



TE Part #6-535512-1
04 MODII HORZ DR CE EESS .100



TE Part #726386-2
250 FASTON TAB TPBR



TE Part #2-1437558-2
MTA206P=(MSTA) SW TOG DPDT



TE Part #6-1879021-5
SMW3 47R 5%



TE Part #1879463-1
RL73H 2E R10 1% 5K RL



TE Part #5787617-1
RECP ASSY, R/A, STACKED, THRU-HOLE, USB,

Documents

Product Drawings

1FHR,64,30A/P,S,C,S08,09,10

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_146893-1_M.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_146893-1_M.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_146893-1_M.3d_stp.zip

English

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Product Specifications

Application Specification

English