



Free Height

TE Internal #: 3-6318490-6

PCB Mount Receptacle, Vertical, Board-to-Board, 220 Position, .5 mm [.02 in] Centerline, Gold, Surface Mount, Signal, Black, Free Height

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Connectors > PCB Connectors > PCB Headers & Receptacles



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

PCB Mount Orientation: **Vertical**

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

Number of Positions: **220**

Centerline (Pitch): **.5 mm [.02 in]**

Features

Product Type Features

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

Configuration Features

Stackable	No
PCB Mount Orientation	Vertical
Number of Positions	220
Board-to-Board Configuration	Parallel

Electrical Characteristics

Dielectric Withstanding Voltage (Max)	200 VAC
Insulation Resistance	2 MΩ
Operating Voltage	50 VAC

Body Features



Primary Product Color	Black
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Contact Features

Contact Layout	Inline
Contact Mating Area Length	1 mm, 1.3 mm
PCB Contact Termination Area Plating Material Thickness	1 μ m[39.37 μ in]
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.2 μ m[8 μ in]
Contact Type	Socket
Contact Current Rating (Max)	.5 A

Termination Features

Rectangular Termination Post & Tail Thickness	.15 mm[.006 in]
Rectangular Termination Post & Tail Width	.9 mm[.035 in]
Termination Method to Printed Circuit Board	Surface Mount

Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
PCB Mount Retention Type	Solder Peg
Mating Alignment	With
Mating Alignment Type	Polarization
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	.5 mm[.02 in]
Housing Material	High Temperature Thermoplastic

Dimensions

Connector Height	4 mm[.157 in]
Stack Height	4 mm, 5 mm, 8 mm[.315 in]
	.2 in

Usage Conditions

Housing Temperature Rating	High
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Operating Temperature Range -40 – 85 °C[-40 – 185 °F]

Operation/Application

Circuit Application Signal

Industry Standards

UL Flammability Rating UL 94V-0

Packaging Features

Packaging Quantity 210

Packaging Type Tray

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 2022 (224)
Candidate List Declared Against: JUNE 2022 (224)
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 245°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 # 3-1827253-6
.5FHP05H,220,S,GIG,08/Sn,HT,NSYes



TE Part # 8-6318491-6
.5FHP08H,220,S,GIG,08/Sn,HT,SEYes



TE Part # 3-6318491-6
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes



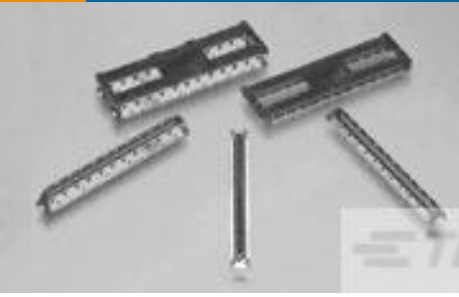
TE Part # 3-1939756-6
.5FHP08H,220,S,GIG,30/Sn,HT,NS



TE Part # 9-6318491-6
.5FHP08H,220,S,GIG,08/Sn,HT,NSYes, W/C



TE Part # 3-2040713-6
.5FHP08H,220,S,GIG,30/Sn,TR,NS



TE Part # 9-1939756-6
.5FHP08H,220,S,GIG,30/Sn,HT,NS,WC



TE Part # 3-2040714-6
.5FHR04H,220,S,GIG,30/Sn,TR,NSYes



TE Part # 4-1827253-6
.5FHP05H,220,S,GIG,08/Sn,TR,NSYes



TE Part # 9-1827253-6
.5FHP05H,220,S,GIG,30/Sn,HT,NSYes

Also in the Series | **Free Height**



PCB Headers & Receptacles(760)

Documents

CAD Files

[3D PDF](#)

[3D](#)

Customer View Model

[ENG_CVM_CVM_3-6318490-6_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-6318490-6_B.3d_igs.zip](#)



English

Customer View Model

[ENG_CVM_CVM_3-6318490-6_B.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 - 0.5mm Free Height \(FH\) Connectors](#)

English

[COM Connectors Brochure \(English\)](#)

English

[Stacking Connectors Quick Reference Guide \(English\)](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD_3-6318490-6_01302018210_dmtec](#)

English

[MD_3-6318490-6_01302018210_dmtec](#)

English

Agency Approvals

[UL](#)

English