



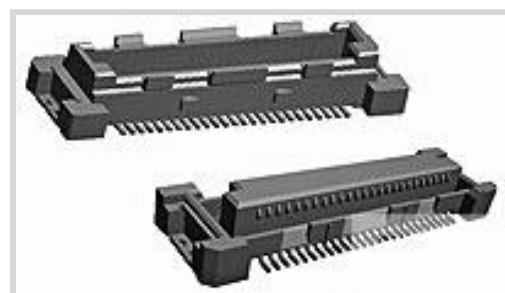
Free Height

TE Internal #: 5316077-3

PCB Mount Receptacle, Vertical, Board-to-Board, 50 Position, .6 mm [.024 in] Centerline, Gold, Surface Mount, Signal, Black, Free Height

[View on TE.com >](#)

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: **50**

Centerline (Pitch): **.6 mm [.024 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	Yes
PCB Mount Orientation	Vertical
Number of Positions	50
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
PCB Contact Termination Area Plating Material Thickness	.05 μm, 1 μm[1.9685 μin][39.37 μin]



PCB Contact Termination Area Plating Material	Gold, Tin
Contact Base Material	Copper Alloy
Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Material Thickness	.2 μm [7.874 μin]
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)	.6 mm[.024 in]
Housing Material	High Temperature Thermoplastic

Dimensions

Connector Height	4 mm[.157 in]
Stack Height	4 mm, 5 mm, 12 mm[.472 in]
	.2 in

Usage Conditions

Operating Temperature Range	-40 – 85 $^{\circ}\text{C}$ [-40 – 185 $^{\circ}\text{F}$]
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Operation/Application

Circuit Application	Signal
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Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features



Packaging Quantity	50
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: JAN 2018 (181) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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



TE Part # 5-5353184-3
[.6FHP04H,050,S,GIG,08/Sn,TR,SEYes](#)



TE Part # 5-5353186-3
[.6FHP06H,050,S,GIG,08/Sn,TR,SEN0](#)



TE Part # 6123582-3
[.6FHP10H,050,S,GIG,08/Sn,ST,NSYes](#)



TE Part # 6318026-3
[.6FHP12H,050,S,STD,08/Sn,ST,NSYes](#)



Also in the Series | Free Height



Documents

Product Drawings

[.6FHR04H,050,S,GIG,08/Sn,ST,NSYes](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5316077-3_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5316077-3_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5316077-3_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 - 0.6mm Free Height \(FH\) and GIGA Connectors](#)

English

Product Specifications

[Application Specification](#)

English

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