



Connectors > D-Shaped Connectors > D-Sub Connectors > PCB D-Sub Connectors



Connector & Housing Type: **Receptacle**

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

Number of Positions: **50**

Centerline (Pitch): **1.27 mm [.05 in]**

Number of Rows: **4**

Features

Product Type Features

Shell Type	Front Metal Shell
Connector & Housing Type	Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Type	Header
Product Type	Connector

Configuration Features

Number of Positions	50
Number of Rows	4
PCB Mount Orientation	Right Angle
Preloaded	Yes

Body Features

Tine Plate Material	PBT
Front Shell Plating Material	Nickel over Copper
Front Shell Material	Steel
Connector Profile	Standard
Post Size	.32 mm
Color	Black
Shell Material	Steel

Shell Plating Material	Nickel over Copper
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Contact Features

Contact Mating Area Plating Material	Gold
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PCB Contact Termination Area Plating Material	Tin
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Contact Base Material	Copper Alloy
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Termination Features

Termination Method to Printed Circuit Board	Through Hole - Solder
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Termination Post Length	3.1 mm[.122 in]
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Mechanical Attachment

Panel Mount Feature	With
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PCB Mount Retention	With
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PCB Mount Retention Type	Boardlock
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Mating Retention	With
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Mating Retention Type	Latches
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Connector Mounting Type	Board Mount
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Mounting Angle	Right Angle
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Mounting Hole Diameter	2.7 mm
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Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
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Housing Material	PBT
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Housing Color	Black
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Dimensions

Row-to-Row Spacing	1.9 mm[.075 in]
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PCB Thickness (Recommended)	1.66 mm
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Usage Conditions

Housing Material Temperature	Standard
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Operation/Application

Circuit Application	Signal
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Packaging Features

Packaging Method	Tray
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Packaging Quantity	80
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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: JUN 2013 (144) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Wave solder capable to 265°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.

Documents

Product Drawings

[CHAMP 050 FMS REC HDR ASSY 50P](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_5917738-7_O.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_5917738-7_O.3d_igs.zip](#)

English



Customer View Model

[ENG_CVM_CVM_5917738-7_O.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Environmental Compliance

[TE Material Declaration](#)

English