

CHAMP

TE Internal #: 3-5178238-0

TE Internal Description: CHAMP.050 REC ASS'Y 80P PB-FREE

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

Connector & Housing Type: **Receptacle**Connector System: **Cable-to-Board**Number of Positions: **80**Centerline (Pitch): **1.27 mm [.05 in]**Number of Rows: **2****Features****Product Type Features**

Shell Type	Full Metal Shell
Frame Material	Die Cast Zinc
Connector & Housing Type	Receptacle
Connector System	Cable-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Type	Header
Product Type	Connector

Configuration Features

Number of Positions	80
Number of Rows	2
PCB Mount Orientation	Vertical
Preloaded	Yes

Body Features

Frame Plating Material	Nickel
Connector Profile	Standard
Post Size	.4 mm
Color	Black
Shell Plating Material	Nickel
Shield Material	Steel

Shell Material	Steel
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Shield Plating Material	Nickel
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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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Contact Current Rating (Max)	.5 A, 1 A
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	30 μ m
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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	Retention Leg
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Mating Retention	With
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Mating Retention Type	Latch
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Connector Mounting Type	Board Mount
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Boardlock Plating Material	Tin over Nickel
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Mounting Angle	Right Angle
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Mounting Hole Diameter	2.7 mm
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Boardlock Material	Copper Alloy
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Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
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Housing Material	Thermoplastic
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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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Panel Thickness	2.01 mm[.079 in]
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PCB Thickness (Recommended)	1.57 – 2.36 mm[.062 – .093 in]
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Usage Conditions

Housing Material Temperature	Standard
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Operating Temperature Range -55 – 85 °C[-67 – 185 °F]

Operation/Application

Circuit Application Signal

Industry Standards

UL Flammability Rating UL 94V-0

Packaging Features

Packaging Method Tray

Packaging Quantity 60

Other

Comment Alternate tail lengths 3.90 [.153] and 2.20 [.087] available

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 2020 (209)
 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 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 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>



Documents

Product Drawings

[CHAMP.050 REC ASS'Y 80P PB-FREE](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_3-5178238-0_O.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_3-5178238-0_O.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_3-5178238-0_O.3d_stp.zip](#)

English

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Product Specifications

[CHAMP.050 Series\(II\) Connector Wire to Board Type](#)

English

Product Specification

English