5176374-1 ✔ ACTIVE

CHAMP | CHAMP .050 Series I

TE Internal #: 5176374-1

PCB Mount Receptacle, Vertical, Board-to-Board, 40 Position, 1.27 mm [.05 in] Centerline, Gold (Au), Through Hole - Solder, CHAMP .050 Series I

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

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

Number of Positions: **40**

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

PCB Mount Orientation: **Vertical**

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Stackable	Yes
Number of Positions	40
PCB Mount Orientation	Vertical

Electrical Characteristics

Operating Voltage	250 VAC
Insulation Resistance	1 MΩ

Contact Features

Mating Tab Width	.85 mm[.033 in]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.4 µin]
Contact Shape & Form	Square
Contact Layout	Inline
Contact Mating Area Length	3.6 mm[.141 in]

Contact Base Material	Phosphor Bronze
Mating Tab Thickness	.32 mm[.013 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.3 µm[11.9 µin]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	1 A

Termination Features

Rectangular Termination Post & Tail Width	.5 mm[.02 in]
Rectangular Termination Post & Tail Thickness	.32 mm[.013 in]
Termination Post & Tail Length	3.1 mm[.122 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

PCB Mount Alignment Type	Post Polarization
Connector Mounting Type	Board Mount
Mating Alignment	Without
PCB Mount Alignment	Without
PCB Mount Retention	Without

Housing Features

Centerline (Pitch)	1.27 mm[.05 in]
Housing Material	Nylon GF

Dimensions

Connector Height	11.5 mm[.452 in]
	.3 in
Stack Height	14 mm[.551 in]

Usage Conditions

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 Quantity	130
Packaging Method	Tray

Product Compliance

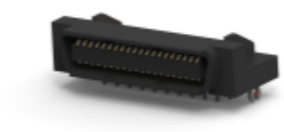
For compliance documentation, visit the product page on TE.com>

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 2025 (250) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

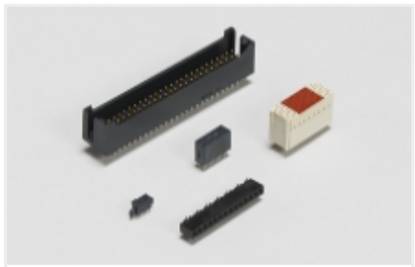
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

Compatible Parts

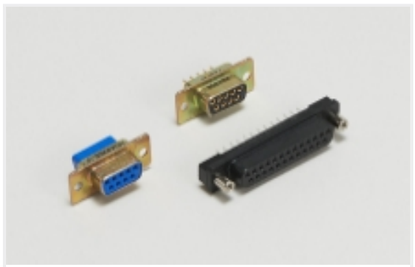


TE Part # 5176381-1
PLUG ASS'Y(H) 40P 1.27FHBB

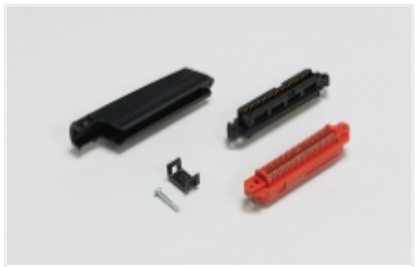
Also in the Series | CHAMP .050 Series I



Board-to-Board Headers & Receptacles(127)



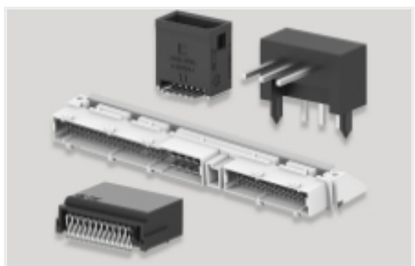
D-Shaped Connectors(7)



IDC D-Sub Connectors(6)



PCB D-Sub Connectors(1)

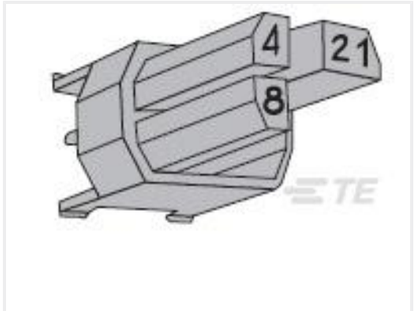


PCB Headers & Receptacles(127)

Customers Also Bought



TE Part #001-0012
ANTENNA,2.4/5.5 GHz Dipole,IP67



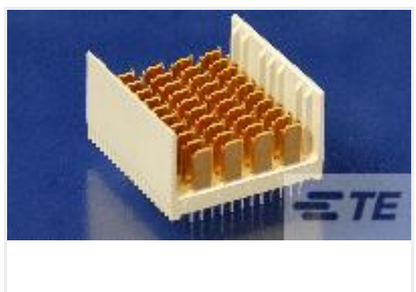
TE Part #3-100525-5
Z-PACK M.CODING KEY



TE Part #1761007-2
SFP 1X2 CAGE & LIGHT PIPE KIT



TE Part #6469001-1
HM-ZD 4PR RECP 80P



TE Part #6469002-1
HM-ZD 4PR HDR 80P 5.2MM



TE Part #6469025-1
HM-ZD 2PR HDR 40P 2.5MM



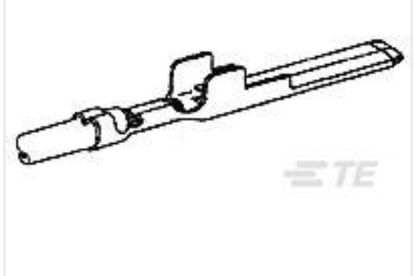
TE Part #171354-1
17 CIR MIC PLUG HSG



TE Part #172026-1
MIC PLUG 5P



TE Part #172037-1
MIC CAP 5P V



TE Part #170222-4
MIC TAB

Documents

Product Drawings

AMP FH CONN REC V 40P (H=14)

English

CAD Files

Customer View Model

ENG_CVM_CVM_5176374-1_O.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5176374-1_O.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5176374-1_O.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Instruction Sheets

AMP FH Board-to-Board Connectors

English

Instruction Sheet (non U.S.)

English