6646685-1 × OBSOLETE

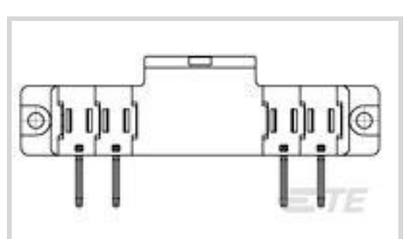
ELCON | ELCON Drawer

TE Internal #: 6646685-1

TE Internal Description: CONN,PIN,RT<,SLDR,FLATPAQ

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Plug**

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

Number of Positions: **28**

Number of Rows: **3**

Centerline (Pitch): **2.5 mm, 7.5 mm [.098 in, .295 in]**

Features

Product Type Features

Mixed & Hybrid Header	Yes
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Plug
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Positions	28
Number of Rows	3
PCB Mount Orientation	Right Angle
Board-to-Board Configuration	Co-Planar
Number of Power Positions	4
Number of Signal Positions	24

Electrical Characteristics

Operating Voltage	250 VDC

Body Features

Connector Profile	Standard
Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
Mating Square Post Dimension	.64 mm[.025 in]
Mating Tab Width	7 mm[.275 in]
PCB Contact Termination Area Plating Material Thickness	2.54 µm[100 µin]
Contact Layout	Matrix
Contact Base Material	Brass Alloy, Copper Alloy, Phosphor Bronze
Mating Tab Thickness	1.25 mm[.049 in]
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Blade, Pin
Contact Current Rating (Max)	3 A, 35 A
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]

Termination Features

Termination Post & Tail Length	4.6 mm[.181 in]
Termination Method to PCB	Through Hole - Solder

Mechanical Attachment

PCB Mount Retention Type	Flange w/Mounting Holes
Connector Mounting Type	Board Mount
Mating Alignment	Without
PCB Mount Alignment	Without
PCB Mount Retention	With

Housing Features

Centerline (Pitch)	2.5 mm, 7.5 mm[.098 in][.295 in]
Housing Material	Thermoplastic Glass Reinforced

Dimensions

Connector Width	14 mm[.551 in]
Connector Height	14 mm[.551 in]
Connector Length	72.5 mm[2.85 in]
Row-to-Row Spacing	2.5 mm[.098 in]
PCB Thickness (Recommended)	1.57 – 3.18 mm[.062 – .125 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

Operation/Application

Circuit Application	Power & Signal

Industry Standards

Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	64
Packaging Method	Box

Product Compliance

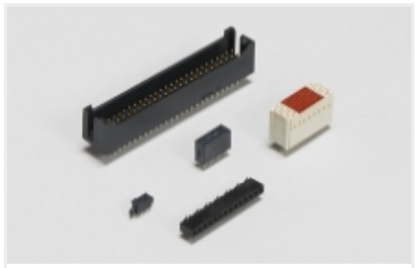
For compliance documentation, visit the product page on TE.com>

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: JAN 2025 (247) 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

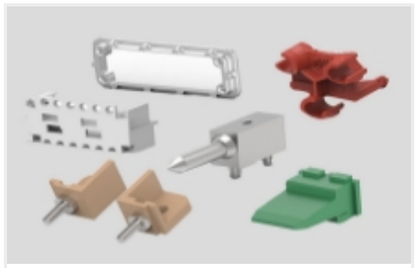
Also in the Series | ELCON Drawer



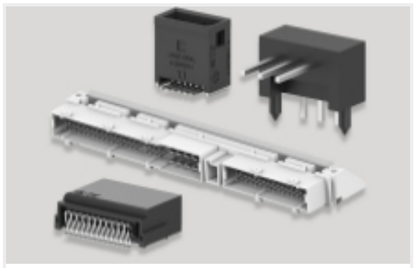
Board-to-Board Headers & Receptacles(10)



Connector Contacts(34)



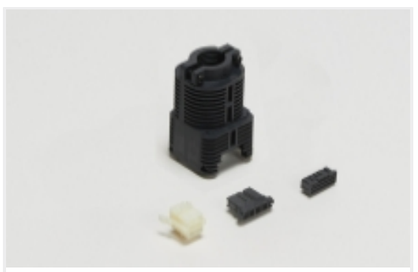
Connector Hardware(1)



PCB Headers & Receptacles(10)



Power Contacts(34)



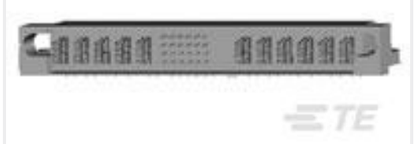
Rectangular Connector Housings(1)



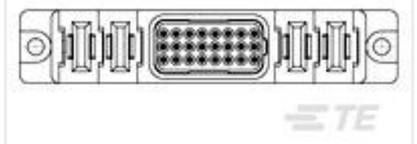
Rectangular Power Connectors(9)

Customers Also Bought

TE Part #4-6450170-1
MBXL R/A RCPT 2P+24S+6P



TE Part #6450230-1
MBXL R/A HDR 5P+24S+1M+6P



TE Part #6646277-1
CONN,SKT,STR,SLDR,FLATPAQ

TE Part #4-6450832-8
MBXL R/A HEADER 22LP + 40S



TE Part #6643769-1
CONN,SKT,TOP DRAWER

Documents

Product Drawings

CONN,PIN,RT<,SLDR,FLATPAQ

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6646685-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_6646685-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6646685-1_A.3d_stp.zip

English

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Product Specifications

Application Specification

English

Agency Approvals

Agency Approval Document

English