

6646816-1 ✓ ACTIVE

ELCON | ELCON Drawer

TE Internal #: 6646816-1

Rectangular Power Connectors, Header, Plug, Board-to-Board, 46

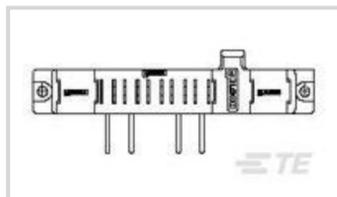
Position, 7.5 mm / 2.5 mm [.295 in / .098 in] Centerline, ELCON

Drawer

[View on TE.com >](#)



Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **46**

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

Features

Product Type Features

Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	46
PCB Mount Orientation	Right Angle
Number of Power Positions	4
Number of Signal Positions	6
Number of Rows	3
Board-to-Board Configuration	Co-Planar

Electrical Characteristics

Operating Voltage	250 VDC
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Contact Features

Power Contact Base Material	Phosphor Bronze Alloy
Signal Contact Base Material	Brass Alloy
Contact Base Material	Brass Alloy



Contact Current Rating (Max)	3 A, 35 A
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Contact Retention Within Housing	With
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Contact Type	Blade, Pin
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PCB Contact Termination Area Plating Material	Tin
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Contact Mating Area Plating Material	Gold
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Contact Mating Area Plating Material Thickness	.76 μm [30 μin]
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Termination Features

Termination Post & Tail Length	5.08 mm[.2 in]
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Termination Method to Printed Circuit Board	Through Hole - Solder
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Mechanical Attachment

PCB Mount Retention	Without
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PCB Mount Retention Type	Flange w/Mounting Holes
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Connector Mounting Type	Board Mount
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Housing Features

Centerline (Pitch)	2.5 mm, 7.5 mm[.098 in][.295 in]
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Housing Color	Black
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Housing Material	Thermoplastic
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Dimensions

Row-to-Row Spacing	2.5 mm[.098 in]
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Mating Post Length	5.08 mm[.2 in]
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Height	14 mm[.551 in]
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Usage Conditions

Operating Temperature Range	-40 – 125 °C[-40 – 257 °F]
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Operation/Application

Circuit Application	Power & Signal
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Industry Standards

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

Packaging Method	Box
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Packaging Quantity	64
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Other



For Use With

Plug Assembly

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: JUL 2019 (201)
 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 # 6646425-1
[CONN,SKT,STR,COMPL,FLATPAQ](#)

Also in the Series | [ELCON Drawer](#)



PCB Connector Mounting(1)



Power Contacts(33)



Rectangular Connector Hardware(1)



Rectangular Power Connectors(31)

Documents

Product Drawings

[CONN,PIN,STR,SLDR,FLATPAQ](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_6646816-1_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6646816-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6646816-1_B.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English