



TE Internal #: 5145432-2

Card Edge Power Connectors, Board-to-Board, 50 Position, 2.54 mm [.1 in] Centerline, Power & Signal, 50 Power Positions, 0 Signal Positions

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Connectors > PCB Connectors > Card Edge Connectors > Card Edge Power Connectors



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

Number of Positions: **50**

Centerline (Pitch): **2.54 mm [.1 in]**

Connector & Contact Terminates To: **Printed Circuit Board**

Contact Current Rating (Max): **3 A**

Features

Product Type Features

Connector Mates With	Printed Circuit Board
Connector & Housing Type	Receptacle
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Keying & Polarized Position Locations	17, 18
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Power Positions	50
Number of Signal Positions	0
Number of Dual Positions	25

Electrical Characteristics

Operating Voltage	400 V
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Body Features

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Primary Product Color	Black
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Contact Features

PCB Contact Termination Area Plating Material Thickness	2.54 μm [100 μin]
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Contact Type	Socket
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Contact Mating Area Plating Material Thickness	.76 μm [30 μin]
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PCB Contact Termination Area Plating Material Finish	Matte
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Contact Underplating Material	Nickel
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PCB Contact Termination Area Plating Material	Tin
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Contact Base Material	Phosphor Bronze
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Contact Current Rating (Max)	3 A
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Contact Mating Area Plating Material	Gold
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Termination Features

Termination Post & Tail Length	3.18 mm[.125 in]
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Termination Method to Printed Circuit Board	Through Hole - Solder
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Mechanical Attachment

Mating Alignment Type	Keyed
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Mating Retention	With
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Mating Alignment	With
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PCB Mount Alignment	Without
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PCB Mount Retention	With
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PCB Mount Retention Type	Action/Compliant Tail
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Mating Retention Type	Latch
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Connector Mounting Type	Board Mount
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Housing Features

Housing Material	Polyester GF
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Centerline (Pitch)	2.54 mm[.1 in]
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Dimensions

Card Slot Depth	7.49 mm[.295 in]
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Connector Height	15.49 mm[.61 in]
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Row-to-Row Spacing	4.85 mm[.191 in]
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Power Contact Centerline	2.54 mm[.1 in]
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Usage Conditions



Operating Temperature Range	-55 – 85 °C[-67 – 185 °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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Packaging Features

Packaging Quantity	6
Packaging Method	Box

Other

Position Locations Omitted	44
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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 2023 (235) Candidate List Declared Against: JAN 2023 (233) 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

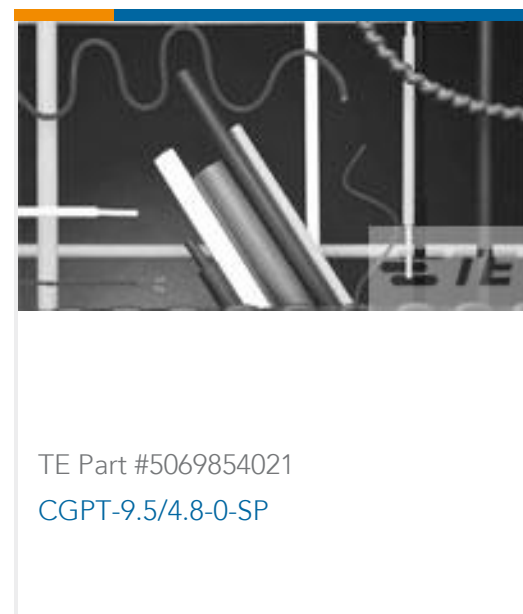
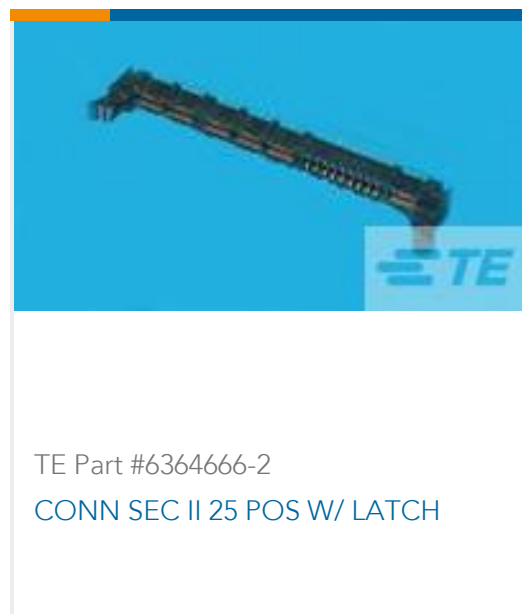
Product Compliance Disclaimer

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



Customers Also Bought



Documents

Product Drawings

[CONN SEC II 25 POS W/ LATCH](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5145432-2_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5145432-2_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5145432-2_C.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[TE Material Declaration](#)

English

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