

2170231-1 ✓ ACTIVE

TE Internal #: 2170231-1

Card Edge Power Connectors, Board-to-Board, 40 Position, 8.24 mm / 6.84 mm [.324 in / .27 in] Centerline, Power & Signal, 16 Power Positions

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



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

Number of Positions: **40**

Centerline (Pitch): **6.84 mm, 8.24 mm [.27 in, .324 in]**

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

Contact Current Rating (Max): **15 A**

Features

Product Type Features

Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

PCB Mount Orientation	Vertical
Number of Positions	40
Number of Power Positions	16
Number of Signal Positions	24
Number of Dual Positions	8

Electrical Characteristics

Operating Voltage	300 V
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Body Features

Primary Product Color	Black
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Contact Features

Contact Mating Area Plating Material Thickness	.76 μ m[30 μ in]
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Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Current Rating (Max)	15 A
Contact Mating Area Plating Material	Gold

Termination Features

Termination Post & Tail Length	3.5 mm[.138 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

Mechanical Attachment

PCB Mount Retention	With
Connector Mounting Type	Board Mount

Housing Features

Housing Material	Polyester GF
Centerline (Pitch)	6.84 mm, 8.24 mm[.27 in][.324 in]

Dimensions

Power Contact Centerline	2 mm[.078 in]
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Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °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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Other

Position Locations Omitted	0
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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

Not applicable for solder process capability

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 # 2343428-1
HD+ CE, RA, CRPS

Customers Also Bought



TE Part #1551920-2
zQSFP+ connector assembly



TE Part #2289742-3
zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X1

TE Part #1-6450871-0
MBXLE R/A RCPT 20S+6P

TE Part #1892200-5
MBXLE R/A HDR 2P+24S+2P solder



TE Part #796136-3
ASSY, SMT BATTERY CONN

TE Part #2170184-2
20 POS SMT CONN, SFP+, 30A

TE Part #2274157-5
SFP+ assy 2x2 Spring Fingers 4 LP Sn

TE Part #2301545-1
ZSFP+ CONNECTOR,30U" FOR HW



TE Part #2319224-6
zSFP+ STACKED 2X6 RECEPTACLE ASSEMBLY

Documents

Product Drawings

[Hybrid Card Edge Power Connect](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2170231-1_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170231-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170231-1_B.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[TE Material Declaration](#)

English

Agency Approvals

[UL Report](#)

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English