

# 2170231-1 ✓ ACTIVE

TE Internal #: 2170231-1

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

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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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### Contact Features

Contact Mating Area Plating Material Thickness	.76 $\mu$ m[30 $\mu$ in]
Contact Underplating Material	Nickel
Contact Base Material	Phosphor Bronze



Contact Current Rating (Max)	15 A
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Contact Mating Area Plating Material	Gold
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Contact Termination Area Plating Material	Tin
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#### Termination Features

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

PCB Mount Retention	With
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Connector Mounting Type	Board Mount
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#### Housing Features

Centerline (Pitch)	6.84 mm, 8.24 mm[.27 in][.324 in]
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Housing Color	Black
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Housing Material	Polyester GF
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#### 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
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224)
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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 #5100147-1  
Z-PACK/A RAF 110P




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 #2170960-1  
HIGH SPEED COPLANAR CONNECTOR



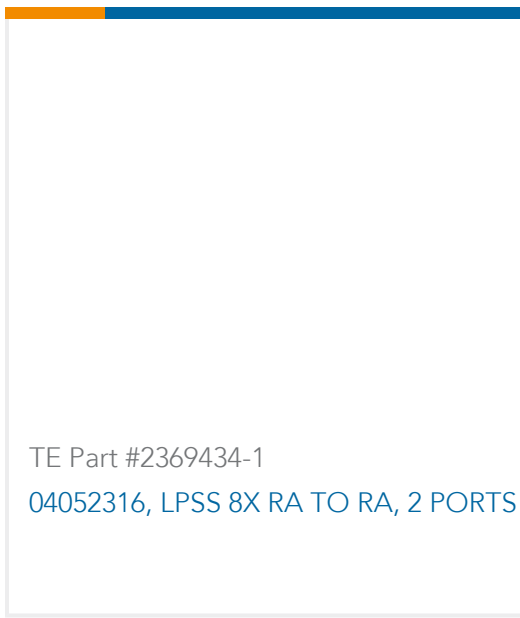
TE Part #2289742-1  
zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X1



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



TE Part #2369431-1  
04052316-001, LPSS 8X RA TO RA, 2 PORTS



## 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

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Product Specifications

[Application Specification](#)

English

### Product Environmental Compliance

[TE Material Declaration](#)

English

### Agency Approvals

[UL Report](#)

English