



Connectors > Power Connectors > Backplane Power Connectors



PCB Connector Assembly Type: **PCB Mount Receptacle**  
Connector System: **Board-to-Board**  
Number of Positions: **4**  
PCB Mount Orientation: **Vertical**  
Backplane Architecture: **Orthogonal**

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| PCB Connector Assembly Type       | PCB Mount Receptacle  |
| Connector System                  | Board-to-Board        |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

|                        |            |
|------------------------|------------|
| Number of Columns      | 2          |
| Number of Positions    | 4          |
| PCB Mount Orientation  | Vertical   |
| Backplane Architecture | Orthogonal |
| Stackable              | No         |

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Operating Voltage | 48 VDC |
|-------------------|--------|

Contact Features

|                              |      |
|------------------------------|------|
| Contact Current Rating (Max) | 15 A |
|------------------------------|------|

Termination Features

|                                |                          |
|--------------------------------|--------------------------|
| Termination Post & Tail Length | 2.5 mm[.098 in]          |
| Termination Method to PCB      | Through Hole - Press-Fit |

Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|



Housing Features

|                    |                              |
|--------------------|------------------------------|
| Housing Material   | LCP (Liquid Crystal Polymer) |
| Housing Color      | Black                        |
| Centerline (Pitch) | 5.2 mm[.205 in]              |

Dimensions

|                   |                 |
|-------------------|-----------------|
| PCB Hole Diameter | .73 mm[.029 in] |
|-------------------|-----------------|

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -55 – 85 °C[-67 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

|                     |       |
|---------------------|-------|
| Circuit Application | Power |
|---------------------|-------|

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free                                             |
| Solder Process Capability                     | Not reviewed 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

|                                                                       |                                                                     |                                                                            |                                                                       |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <p>TE Part # 2-2180850-0<br/>IMP,PWR,3PR,HDR,L-HLD,2X,797-4,797-9</p> | <p>TE Part # 2180850-7<br/>IMP,PWR,3PR,HDR,L-HLD,2X,797-3,797-6</p> | <p>TE Part # 2180851-4<br/>IMP,PWR,3PR,HDR,R-HLD,1X,797-4,N /A</p>         | <p>TE Part # 2169797-1<br/>IMP,Power,3PR,R/A,Hdr,6.9,6.9Tin</p>       |
| <p>TE Part # 2169797-4<br/>IMP,Power,3PR,R/A,Hdr,5.7,6.9Tin</p>       | <p>TE Part # 2180850-1<br/>IMP,PWR,3PR,HDR,L-HLD,1X,797-1,N /A</p>  | <p>TE Part # 5-2169797-9<br/>IMP,PWR,3PR,R/A,Hdr,5.7,6.9,Tin-L,w /dove</p> | <p>TE Part # 2-2180851-0<br/>IMP,PWR,3PR,HDR,R-HLD,2X,797-4,797-9</p> |

Also in the Series | IMPACT Power

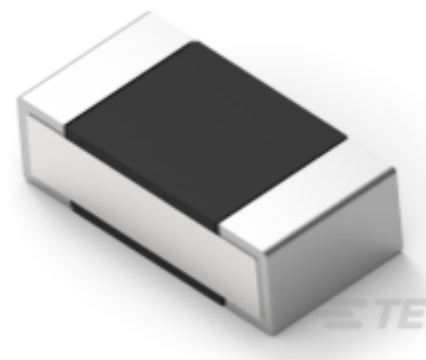
Backplane Power Connectors(6)

Customers Also Bought

|                                                         |                                               |                                                                       |                                                                     |
|---------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|
| <p>TE Part #5179031-1<br/>0.8FH,P08H.5,040,08/Sn,TU</p> | <p>TE Part #2-1630027-5<br/>HSC300 R56 5%</p> | <p>TE Part #223956-1<br/>STV ERMZUB FUEHRUNGSBOLZEN J * M 1 * * *</p> | <p>TE Part #2081888-1<br/>EP-SMA,ADAPTER,STRAIGHT,27GHZ, F TO M</p> |
|---------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|



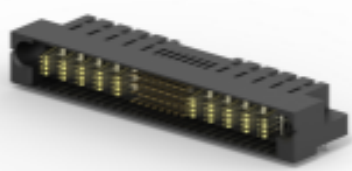




TE Part #1-2176308-5  
RP 1E 0.1W 187K 0.1% 25PPM 5K RL



TE Part #NB24322001  
TAT-125-3/8-0-STK



TE Part #2-2204157-4  
MBXL R/A HDR 5P+32S+5P



TE Part #2007847-3  
IMP100S,H,V5P10C,RG,LEW39,5.5



TE Part #BAT-HLD-012-SMT  
Battery Holder 1216 1225 SMT Bulk Pack

Documents

Product Drawings

IMP,Power,3PR,Vert,Recp,Tin

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_2169806-1\_A.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2169806-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2169806-1\_A.3d\_stp.zip

English

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

Datasheets & Catalog Pages

2-1773457-5\_Impact\_Power\_Connectors

English

Product Specifications

Application Specification

English

Agency Approvals

UL

2169806-1

PCB Mount Receptacle, Board-to-Board, 4 Position, Vertical, Orthogonal, 5.2 mm [.205 in] Centerline, IMPACT Power, Backplane Power Connectors



English