



IMPACT

TE Internal #: 2057411-1  
96 Position, Mating Alignment, Polarization Mating Alignment  
Type, 6 Row, 16 Column, PCB Mount Receptacle, IMPACT, High  
Speed Backplane Connectors

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Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Number of Positions: 96  
Row-to-Row Spacing: 1.35 mm [ .053 in ]  
Mating Alignment: With  
Mating Alignment Type: Polarization  
Number of Rows: 6

Features

Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Signal Arrangement                | Differential          |
| Connector System                  | Board-to-Board        |
| Connector & Contact Terminates To | Printed Circuit Board |
| PCB Connector Assembly Type       | PCB Mount Receptacle  |
| Shroud Style                      | Unshrouded            |

Configuration Features

|                            |             |
|----------------------------|-------------|
| Number of Ground Positions | 32          |
| Number of Pairs            | 32          |
| Stackable                  | No          |
| Number of Signal Positions | 64          |
| Number of Positions        | 96          |
| Number of Rows             | 6           |
| Number of Columns          | 16          |
| PCB Mount Orientation      | Right Angle |
| Guide Location             | Unguided    |

Electrical Characteristics

|                   |        |
|-------------------|--------|
| Impedance         | 100 Ω  |
| Operating Voltage | 30 VAC |



Signal Characteristics

|                                         |              |
|-----------------------------------------|--------------|
| Number of Differential Pairs per Column | 2            |
| Data Rate                               | 20 – 25 Gb/s |

Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|

Contact Features

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| PCB Contact Termination Area Plating Material Thickness | 1.27 µm[50 µin] |
| Contact Layout                                          | Inline          |
| Contact Type                                            | Socket          |
| Contact Underplating Material Thickness                 | 1.27 µm[50 µin] |
| Contact Mating Area Plating Material Thickness          | .762 µm[30 µin] |
| Contact Mating Area Plating Material                    | Gold            |
| PCB Contact Termination Area Plating Material Finish    | Matte           |
| Contact Shape & Form                                    | Dual Beam       |
| Contact Underplating Material                           | Nickel          |
| PCB Contact Termination Area Plating Material           | Tin             |
| Contact Base Material                                   | Copper Alloy    |
| Contact Current Rating (Max)                            | .75 A           |

Termination Features

|                                |                          |
|--------------------------------|--------------------------|
| Termination Post & Tail Length | 1.2 mm[.047 in]          |
| Termination Method to PCB      | Through Hole - Press-Fit |

Mechanical Attachment

|                          |                       |
|--------------------------|-----------------------|
| Guide Hardware           | Without               |
| Mating Retention         | Without               |
| PCB Mount Retention      | With                  |
| PCB Mount Retention Type | Action/Compliant Tail |
| Mating Alignment         | With                  |
| Mating Alignment Type    | Polarization          |
| Connector Mounting Type  | Board Mount           |

Housing Features

|                          |      |
|--------------------------|------|
| Number of Shrouded Sides | 0    |
| End Wall Location        | None |



|                    |                                   |
|--------------------|-----------------------------------|
| Housing Material   | LCP - GF (Liquid Crystal Polymer) |
| Centerline (Pitch) | 1.9 mm[.075 in]                   |

Dimensions

|                             |                   |
|-----------------------------|-------------------|
| Connector Length            | 30.4 mm[1.197 in] |
| Connector Height            | 10.9 mm[.429 in]  |
| Connector Width             | 20.1 mm[.791 in]  |
| PCB Thickness (Recommended) | 1.6 mm            |
| PCB Hole Diameter           | .39 mm[.015 in]   |
| Row-to-Row Spacing          | 1.35 mm[.053 in]  |

Usage Conditions

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

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards

|                                             |                          |
|---------------------------------------------|--------------------------|
| Compatible With Approved Standards Products | CSA Certified, UL E28476 |
| UL Flammability Rating                      | UL 94V-0                 |

Packaging Features

|                  |                     |
|------------------|---------------------|
| Packaging Method | Box & Tube, Package |
|------------------|---------------------|

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 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

|                                                                                                                                                  |                                                                                                                                                   |                                                                                                                                                    |                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # 2057737-1<br/>IMP100S,H,V2P16C,LG,OEW39,4.5</p>  |  <p>TE Part # 2057741-1<br/>IMP100S,H,V2P16C,RG,OEW39,4.5</p>  |  <p>TE Part # 2057750-1<br/>IMP100S,H,V2P16C,UG,DEW39,4.5</p>  |  <p>TE Part # 2057737-3<br/>IMP100S,H,V2P16C,LG,OEW39,5.5</p>  |
|  <p>TE Part # 2057739-2<br/>IMP100S,H,V2P16C,LG,REW39,4.9</p> |  <p>TE Part # 2057744-3<br/>IMP100S,H,V2P16C,UG,OEW46,5.5</p> |  <p>TE Part # 2057745-3<br/>IMP100S,H,V2P16C,UG,LEW46,5.5</p> |  <p>TE Part # 2057747-3<br/>IMP100S,H,V2P16C,UG,REW46,5.5</p> |
|  <p>TE Part # 2057750-2<br/>IMP100S,H,V2P16C,UG,DEW39,4.9</p> |  <p>TE Part # 2057736-1<br/>IMP100S,H,V2P16C,LG,OEW46,4.5</p> |  <p>TE Part # 2057736-2<br/>IMP100S,H,V2P16C,LG,OEW46,4.9</p> |  <p>TE Part # 2057736-3<br/>IMP100S,H,V2P16C,LG,OEW46,5.5</p> |
|  <p>TE Part # 2057737-2<br/>IMP100S,H,V2P16C,LG,OEW39,4.9</p> |  <p>TE Part # 2057738-1<br/>IMP100S,H,V2P16C,LG,REW46,4.5</p> |  <p>TE Part # 2057738-2<br/>IMP100S,H,V2P16C,LG,REW46,4.9</p> |  <p>TE Part # 2057738-3<br/>IMP100S,H,V2P16C,LG,REW46,5.5</p> |





TE Part # 2057739-1  
IMP100S,H,V2P16C,LG,REW39,4.5



TE Part # 2057739-3  
IMP100S,H,V2P16C,LG,REW39,5.5



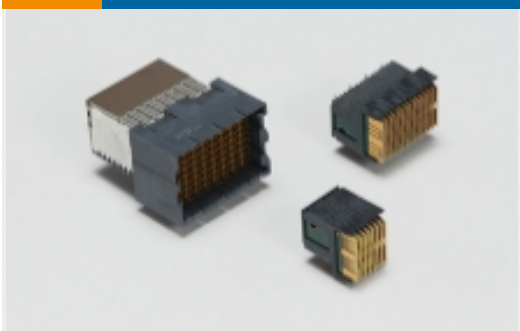
TE Part # 2057740-1  
IMP100S,H,V2P16C,RG,OEW46,4.5



TE Part # 2057740-2  
IMP100S,H,V2P16C,RG,OEW46,4.9

Also in the Series

IMPACT



High Speed Backplane Connectors  
(1318)

Customers Also Bought



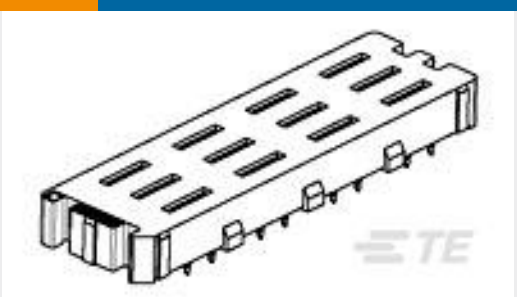
TE Part #207121-9  
METRIMATE PIN HDR ASY,36P LF



TE Part #5406299-1  
MJ ASSY,S/P,8POS,SH,RVPGT,CAT 5e



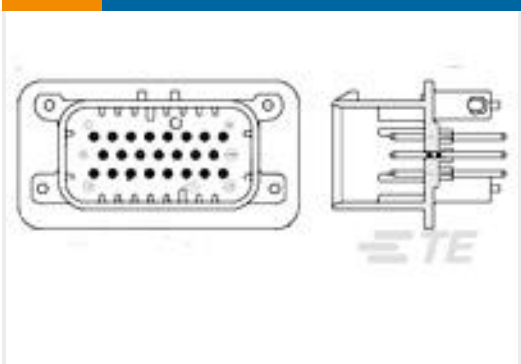
TE Part #292178-1  
MINI DRAWER CONN FOR CT 22P



TE Part #5-2149531-1  
STRADA MESA,RC,HF,000,000,12,SN,N,NA



TE Part #DT13-12PB  
DEUTSCH DT Headers



TE Part #776231-1  
35POS,PIN DIA 1.3,HDR ASSY, 180DEG,COD 1



TE Part #2029451-1  
06P UMNL SOK HDR ASSY W/O DRNS

Documents

Product Drawings

IMP100S,R,RA2P16C,UG,39

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_2057411-1\_A.2d\_dxf.zip



English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2057411-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2057411-1\\_A.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[7-1773458-1\\_IMPACT\\_BACKPLANE\\_CONNECTOR\\_SYSTEM\\_CATALOG](#)

English

Product Specifications

[Application Specification](#)

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[Application Specification](#)

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Agency Approvals

[Agency Approval Document](#)

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