



IMPACT

TE Internal #: 2057405-1  
60 Position, Mating Alignment, Polarization Mating Alignment  
Type, 6 Row, 10 Column, PCB Mount Receptacle, IMPACT, High  
Speed Backplane Connectors  
[View on TE.com >](#)

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



EU RoHS Compliance: **Compliant**  
EU ELV Compliance: **Compliant**  
Number of Positions: **60**  
Row-to-Row Spacing: **1.35 mm [ .053 in ]**  
Mating Alignment: **With**

Features

Other

|                    |           |
|--------------------|-----------|
| EU RoHS Compliance | Compliant |
| EU ELV Compliance  | Compliant |

Product Type Features

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

Configuration Features

|                            |             |
|----------------------------|-------------|
| Number of Pairs            | 20          |
| Number of Ground Positions | 20          |
| Number of Signal Positions | 40          |
| Stackable                  | No          |
| Number of Positions        | 60          |
| Number of Rows             | 6           |
| Number of Columns          | 10          |
| PCB Mount Orientation      | Right Angle |
| Guide Location             | Unguided    |



Electrical Characteristics

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

Signal Characteristics

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

Body Features

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

Contact Features

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

Termination Features

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

Mechanical Attachment

|                          |                       |
|--------------------------|-----------------------|
| Guide Hardware           | Without               |
| PCB Mount Retention      | With                  |
| Mating Retention         | Without               |
| 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

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.6 mm           |
| Connector Width             | 20.1 mm[.791 in] |
| PCB Hole Diameter           | .39 mm[.015 in]  |
| Connector Height            | 10.9 mm[.429 in] |
| Connector Length            | 19 mm[.748 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

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

Packaging Features

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

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

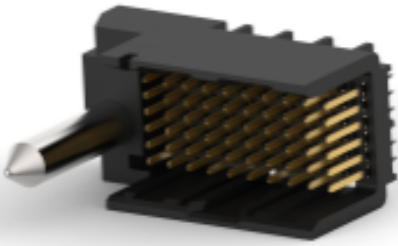
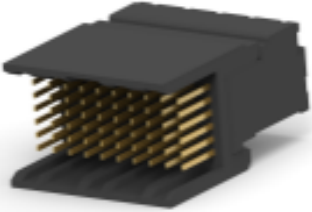
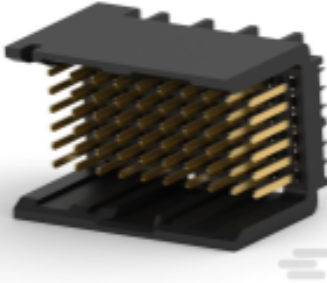
Solder Process Capability

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 # 2057419-3<br/>IMP100S,H,V2P10C,LG,OEWS39,5.5</p> |  <p>TE Part # 2143012-3<br/>IMP100S,H,RA2P10C,UG,OEWS39,5.5</p> |  <p>TE Part # 2143018-3<br/>IMP100S,H,RA2P10C,RG,OEWS39,5.5</p> |  <p>TE Part # 2057423-3<br/>IMP100S,H,V2P10C,RG,OEWS39,5.5</p> |
|  <p>TE Part # 2057426-3<br/>IMP100S,H,V2P10C,UG,OEWS46,5.5</p> |  <p>TE Part # 2057427-3<br/>IMP100S,H,V2P10C,UG,LEWS46,5.5</p> |  <p>TE Part # 2057419-2<br/>IMP100S,H,V2P10C,LG,OEWS39,4.9</p>  |  <p>TE Part # 2018538-1<br/>TOOL, SEAT 2 PR 10 COL,BP CONN</p> |
|  <p>TE Part # 2057421-1<br/>IMP100S,H,V2P10C,LG,REWS39,4.5</p> |  <p>TE Part # 2057423-2<br/>IMP100S,H,V2P10C,RG,OEWS39,4.9</p> |  <p>TE Part # 2057430-2<br/>IMP100S,H,V2P10C,UG,OEWS39,4.9</p>  |  <p>TE Part # 2057430-3<br/>IMP100S,H,V2P10C,UG,OEWS39,5.5</p> |



TE Part # 2057431-3  
IMP100S,H,V2P10C,UG,LEW39,5.5



TE Part # 2057433-3  
IMP100S,H,V2P10C,UG,REW39,5.5



TE Part # 2057418-1  
IMP100S,H,V2P10C,LG,OEW46,4.5



TE Part # 2057418-2  
IMP100S,H,V2P10C,LG,OEW46,4.9



TE Part # 2057418-3  
IMP100S,H,V2P10C,LG,OEW46,5.5



TE Part # 2057419-1  
IMP100S,H,V2P10C,LG,OEW39,4.5

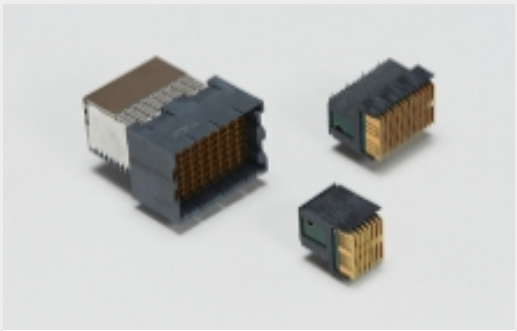


TE Part # 2057420-1  
IMP100S,H,V2P10C,LG,REW46,4.5



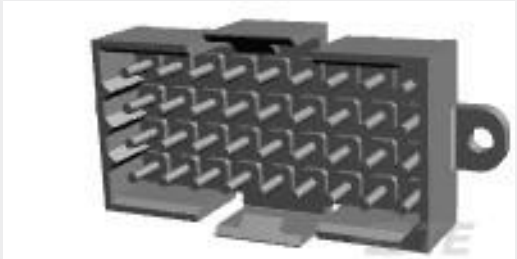
TE Part # 2057420-2  
IMP100S,H,V2P10C,LG,REW46,4.9

Also in the Series | IMPACT



High Speed Backplane Connectors  
(149)

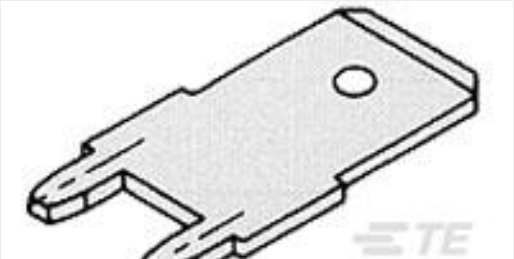
Customers Also Bought



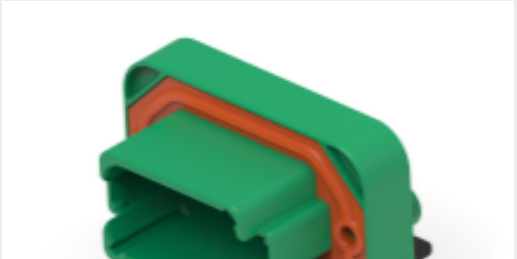
TE Part #207121-9  
METRIMATE PIN HDR ASY,36P LF



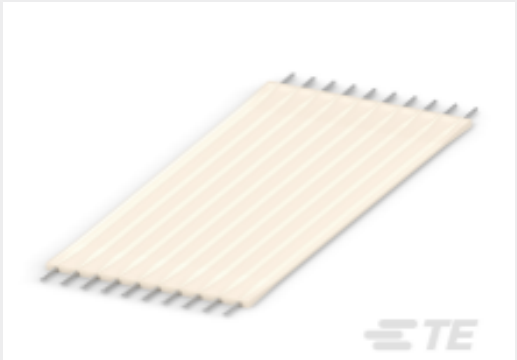
TE Part #1-794078-0  
22P MINI UMNL HDR W/O DH SN LF



TE Part #62650-1  
250 FASTON TAB TPBR



TE Part #DT13-12PC-B016  
HDR, 12P, GRN, RA, ENH KEY, NI/CU, C



TE Part #3-6474612-3  
FSN-21.5A-16



Documents

Product Drawings

IMP100S,R,RA2P10C,UG,39

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_2057405-1\_A.2d\_dxf.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2057405-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2057405-1\_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

English

Agency Approvals

Agency Approval Document

English