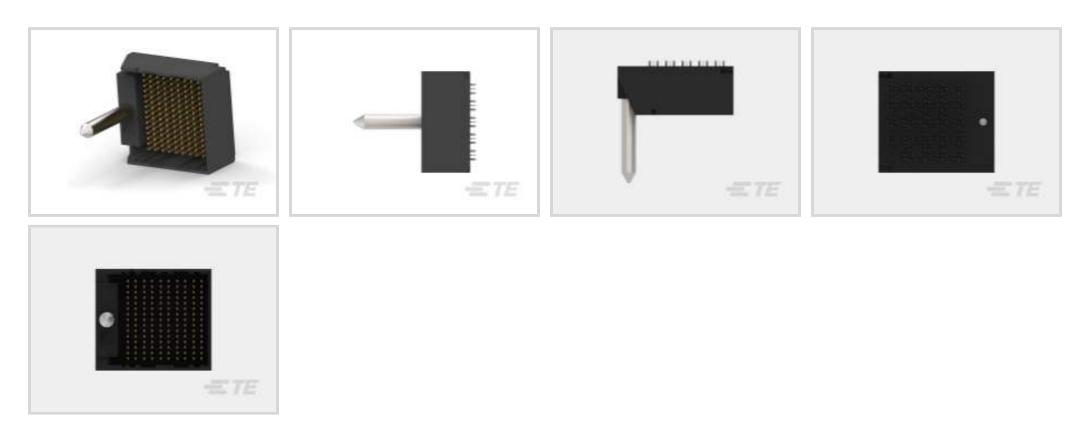


#### IMPACT

TE Internal #: 2143558-2 High Speed Backplane Connectors, 150 Position, Mating Alignment, Guide Pin Mating Alignment Type, 15 Row, 10 Column, PCB Mount Header, IMPACT

#### View on TE.com >

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



Connector System: Board-to-Board Number of Positions: 150 Row-to-Row Spacing: 1.15 mm [.045 in ] Mating Alignment: With

Mating Alignment Type: Guide Pin

# Features



### Product Type Features

| Signal Arrangement                | Differential          |  |
|-----------------------------------|-----------------------|--|
| Connector System                  | Board-to-Board        |  |
| PCB Connector Assembly Type       | PCB Mount Header      |  |
| Shroud Style                      | Fully Shrouded        |  |
| Connector & Contact Terminates To | Printed Circuit Board |  |
| Configuration Features            |                       |  |
| Number of Ground Positions        | 50                    |  |
| Number of Pairs                   | 50                    |  |
| Stackable                         | No                    |  |
| Number of Signal Positions        | 100                   |  |
| Backplane Architecture            | Orthogonal            |  |
| Number of Positions               | 150                   |  |
| Number of Rows                    | 15                    |  |
| Number of Columns                 | 10                    |  |
|                                   |                       |  |

High Speed Backplane Connectors, 150 Position, Mating Alignment, Guide Pin Mating Alignment Type, 15 Row, 10 Column, PCB Mount Header, IMPACT



| PCB Mount Orientation                                   | Vertical                   |  |
|---|----------------------------|--|
| Guide Location  | Left                       |  |
| Electrical Characteristics                              |                            |  |
| Impedance   | 100 Ω                      |  |
| Operating Voltage                                       | 30 VAC                     |  |
| Signal Characteristics                                  |                            |  |
| Number of Differential Pairs per Column                 | 5                          |  |
| Data Rate   | 20 – 25 Gb/s               |  |
| Body Features   |                            |  |
| Primary Product Color                                   | Black                      |  |
| Contact Features  |                            |  |
| Contact Mating Area Length                              | 5.5 mm[.217 in]            |  |
| PCB Contact Termination Area Plating Material Thickness | .76 – 1.52 μm[30 – 60 μin] |  |
| Contact Layout  | Inline                     |  |
| Contact Type  | Pin                        |  |
| Contact Underplating Material Thickness                 | 1.27 μm[50 μin]            |  |
| Contact Mating Area Plating Material Thickness          | .76 μm[29.92 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           | ting Material Tin          |  |
| Contact Base Material                                   | Copper Alloy               |  |
| Contact Current Rating (Max)                            | .75 A                      |  |
| Termination Features                                    |                            |  |
| Termination Post & Tail Length                          | 1.4 mm[.055 in]            |  |
| Termination Method to Printed Circuit Board             | Through Hole - Press-Fit   |  |
| Mechanical Attachment                                   |                            |  |
| PCB Mount Alignment Type                                | Locating Posts             |  |
| Guide Hardware  | With                       |  |
| Mating Retention Without                                |                            |  |
| PCB Mount Retention                                     | With                       |  |

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High Speed Backplane Connectors, 150 Position, Mating Alignment, Guide Pin Mating Alignment Type, 15 Row, 10 Column, PCB Mount Header, IMPACT



| PCB Mount Retention Type    | Action/Compliant Tail & Screw |  |  |
|-----------------------------|-------------------------------|--|--|
| Mating Alignment            | With                          |  |  |
| Mating Alignment Type       | Guide Pin                     |  |  |
| Connector Mounting Type     | Board Mount                   |  |  |
| Housing Features            |                               |  |  |
| Number of Shrouded Sides    | 3                             |  |  |
| End Wall Location           | Right                         |  |  |
| Housing Material            | LCP (Liquid Crystal Polymer)  |  |  |
| Centerline (Pitch)          | 1.9 mm[.075 in]               |  |  |
| Dimensions                  |                               |  |  |
| Connector Length            | 28.4 mm[1.118 in]             |  |  |
| Connector Height            | 11.95 mm[.47 in]              |  |  |
| Connector Width             | 24.8 mm[.976 in]              |  |  |
| PCB Thickness (Recommended) | 3 mm[1.118 in]                |  |  |
| PCB Hole Diameter           | .39 mm[.015 in]               |  |  |
| Row-to-Row Spacing          | 1.15 mm[.045 in]              |  |  |
| Usage Conditions            |                               |  |  |

| O | perating | Tempe | erature | Range |
|---|----------|-------|---------|-------|
|   |          |       |         | 0     |

-55 – 85 °C[-67 – 185 °F]

# **Operation/Application**

| Circuit Application   | Signal                                  |
|---|---|
| Industry Standards  |   |
| Approved Standards  | 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                          |   |

High Speed Backplane Connectors, 150 Position, Mating Alignment, Guide Pin Mating Alignment Type, 15 Row, 10 Column, PCB Mount Header, IMPACT



Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC

Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free

#### Halogen Content

#### Solder Process Capability

Not reviewed for solder process capability

#### Product Compliance Disclaimer

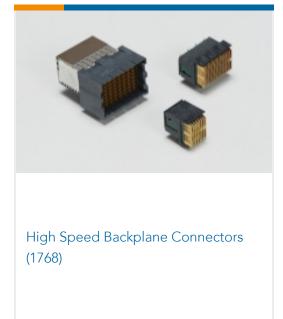
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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**



TE Part # 2132695-1 IMP100O,R,RA5P10C,UG,39

# Also in the Series | IMPACT

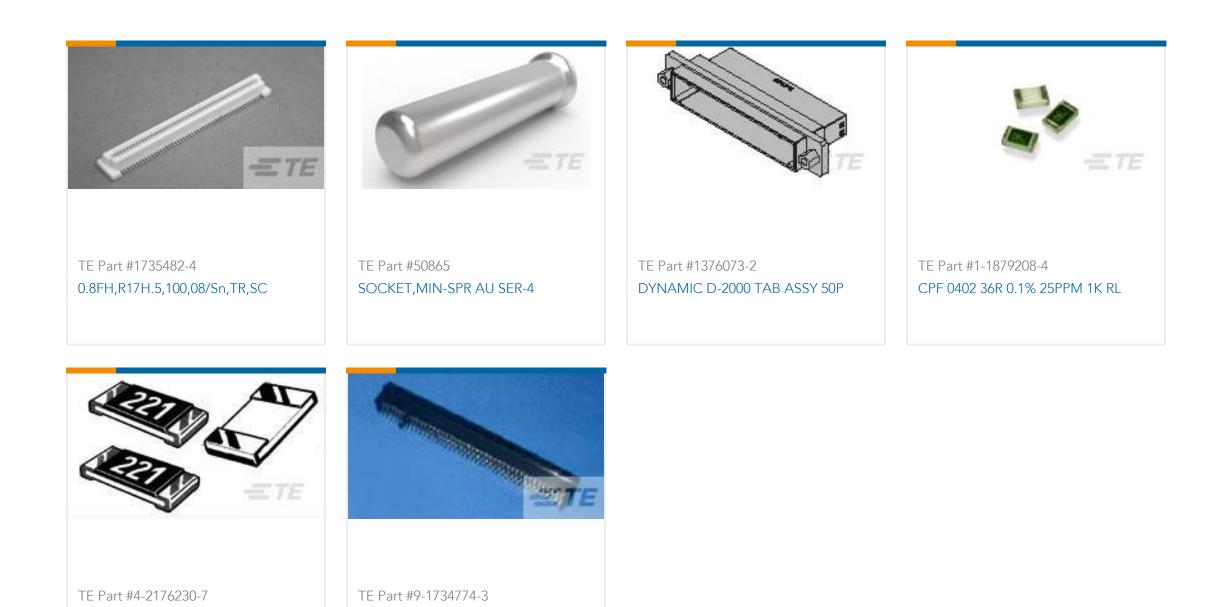


# **Customers Also Bought**

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PCI EXP 2.3L 64 POS BLK 30u"

# Documents

3522 5K6 5% 3W

Product Drawings IMP100O,HMP,V5P10C,LG,REW39,5.5

English

CAD Files

3D PDF

3D

Customer View Model ENG\_CVM\_CVM\_2143558-2\_D.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_2143558-2\_D.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2143558-2\_D.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

Agency Approvals Agency Approval Document

English