



IMPACT

TE Internal #: 1-2007704-1
90 Position High Speed Backplane Connector, 9 Row, 10 Column,
PCB Mount Receptacle, Right Angle, Unshrouded, 1.9 mm [.075 in]
Centerline, IMPACT

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



Number of Positions: 90
Row-to-Row Spacing: 1.35 mm [.053 in]
Mating Alignment: With
Mating Alignment Type: Keyed
Number of Rows: 9

Features

Electrical Characteristics

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

Signal Characteristics

| | |
|---|--------------|
| Data Rate | 20 – 25 Gb/s |
| Number of Differential Pairs per Column | 3 |

Industry Standards

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

Termination Features

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

Body Features

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

Packaging Features

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

Contact Features

| | |
|-------------------------------|--------|
| Contact Underplating Material | Nickel |
|-------------------------------|--------|



| | |
|---|-----------------|
| Contact Underplating Material Thickness | 1.27 µm[50 µin] |
| 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 |

Housing Features

| | |
|--------------------------|-----------------------------------|
| Number of Shrouded Sides | 0 |
| Housing Material | LCP - GF (Liquid Crystal Polymer) |
| Centerline (Pitch) | 1.9 mm[.075 in] |

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 |

Mechanical Attachment

| | |
|--------------------------|-------------------------------|
| Guide Hardware | With |
| PCB Mount Retention | With |
| Mating Retention | Without |
| PCB Mount Retention Type | Action/Compliant Tail & Screw |
| PCB Mount Alignment Type | Locating Posts |
| Mating Alignment | With |
| Mating Alignment Type | Keyed |
| Connector Mounting Type | Board Mount |

Dimensions

| | |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1 mm |
| Connector Width | 24.2 mm[.953 in] |
| PCB Hole Diameter | .39 mm[.015 in] |



| | |
|--------------------|-------------------|
| Connector Height | 13.3 mm[.524 in] |
| Connector Length | 26.6 mm[1.047 in] |
| Row-to-Row Spacing | 1.35 mm[.053 in] |

Configuration Features

| | |
|----------------------------|-------------|
| Number of Pairs | 30 |
| Number of Ground Positions | 30 |
| Number of Signal Positions | 60 |
| Stackable | No |
| Number of Positions | 90 |
| Number of Rows | 9 |
| Number of Columns | 10 |
| PCB Mount Orientation | Right Angle |
| Guide Location | Right |

Usage Conditions

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

Operation/Application

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

Other

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

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) Candidate List Declared Against: JUNE 2024 (241) 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

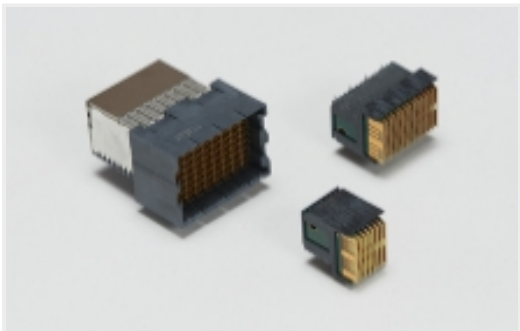
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



TE Part # 1-2007780-1
IMP100S,H,V3P10C,RG,OEW46,4.5

Also in the Series | IMPACT



High Speed Backplane Connectors
(149)

Customers Also Bought



TE Part #DT04-2P
REC, 2P, GRY, N



TE Part #DT06-2S
PLG, 2P, GRY, N



TE Part #CAT-D487-W416
Wedgelocks: DEUTSCH DT



TE Part #CAT-D48-ST273
DEUTSCH Solid Contacts



Documents

Product Drawings

IMP100S,R,RA3P10C,RG,39

English

CAD Files

Customer View Model

ENG_CVM_CVM_1-2007704-1_D.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1-2007704-1_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1-2007704-1_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