



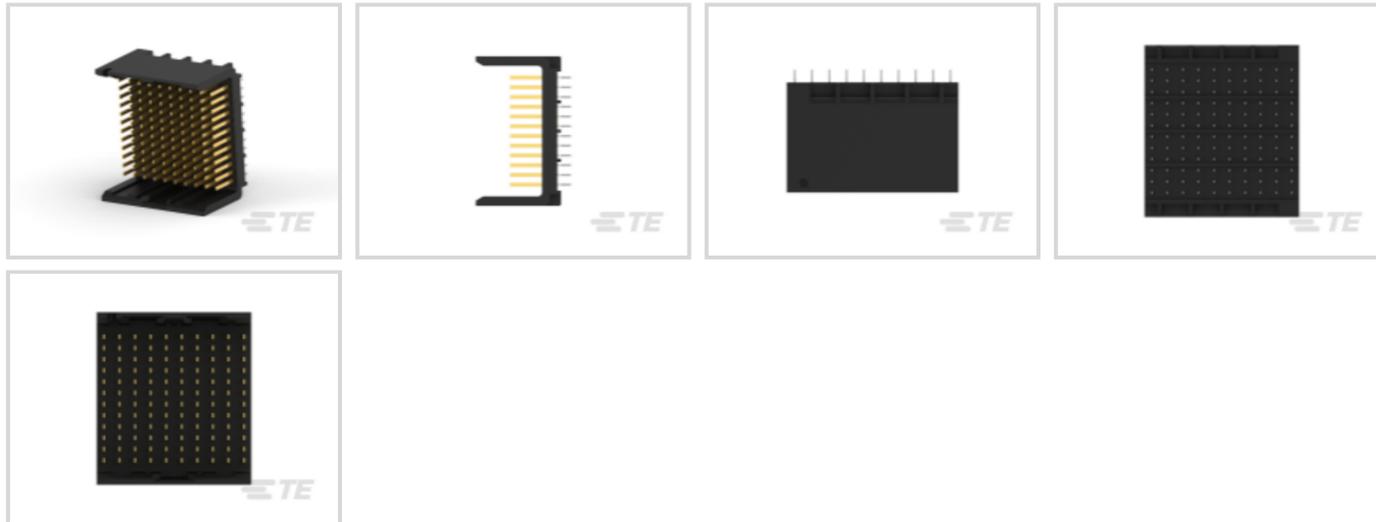
**IMPACT**

TE Internal #: 2007820-1

120 Position High Speed Backplane Connector, 12 Row, 10 Column, PCB Mount Header, Vertical, Partially Shrouded, 1.9 mm [.075 in] Centerline, IMPACT

[View on TE.com >](#)

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



Number of Positions: 120

Row-to-Row Spacing: 1.35 mm [.053 in]

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Number of Rows: 12

**Features**

**Product Type Features**

Signal Arrangement	Differential
Connector & Contact Terminates To	Printed Circuit Board
Connector System	Board-to-Board
PCB Connector Type	PCB Mount Header
Shroud Style	Partially Shrouded

**Configuration Features**

Number of Pairs	40
Number of Ground Positions	40
Number of Signal Positions	80
Stackable	No
Number of Positions	120
Number of Rows	12
Number of Columns	10
PCB Mount Orientation	Vertical



Guide Location	Unguided
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### Electrical Characteristics

Operating Voltage	30 VDC
Impedance	100 $\Omega$

### Signal Characteristics

Data Rate	20 – 25 Gb/s
Number of Differential Pairs per Column	4

### Body Features

Primary Product Color	Black
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### Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 $\mu\text{m}$ [50 $\mu\text{in}$ ]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.76 $\mu\text{m}$ [29.92 $\mu\text{in}$ ]
PCB Contact Termination Area Plating Material Thickness	.76 – 1.52 $\mu\text{m}$ [30 – 60 $\mu\text{in}$ ]
Contact Shape & Form	Dual Beam
Contact Layout	Inline
Contact Mating Area Plating Material	Gold (Au)
Contact Mating Area Length	4.5 mm[.177 in]
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	.75 A

### Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.4 mm[.055 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
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Connector Mounting Type	Board Mount
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### Housing Features

Number of Shrouded Sides	2
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End Wall Location	Open
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Housing Material	Liquid Crystal Polymer (LCP) GF
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Centerline (Pitch)	1.9 mm [.075 in]
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### Dimensions

PCB Thickness (Recommended)	1 mm
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Connector Width	20.8 mm [.819 in]
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PCB Hole Diameter	.39 mm [.015 in]
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Connector Height	11.95 mm [.47 in]
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Connector Length	18.9 mm [.744 in]
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Row-to-Row Spacing	1.35 mm [.053 in]
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### Usage Conditions

Operating Temperature Range	-55 – 85 °C [-67 – 185 °F]
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### Operation/Application

Circuit Application	Signal
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### Industry Standards

UL Flammability Rating	UL 94V-0
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Compatible With Approved Standards Products	UL E28476
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### Packaging Features

Packaging Method	Box & Tube
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### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250)
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Candidate List Declared Against: JUNE 2025 (250)  
Does not contain REACH SVHC

Halogen Content

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

Solder Process Capability

Not applicable for solder process capability

Product Compliance Disclaimer

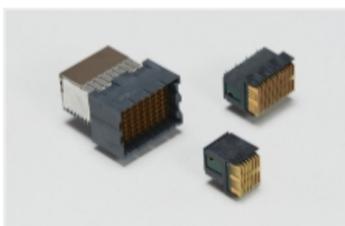
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 2007711-1  
IMP100S,R,RA3P16C,UG,39

### Also in the Series | IMPACT



High Speed Backplane Connectors  
(149)

### Customers Also Bought



## Documents

### Product Drawings

[IMP100S,H,V4P10C,UG,OEW39,4.5](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2007820-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2007820-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2007820-1\\_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

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### [Product Specifications](#)

[Application Specification](#)

English

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### [Agency Approvals](#)

[Agency Approval Document](#)

English