

#### **IMPACT**

TE Internal #: 2007777-1

High Speed Backplane Connectors, 90 Position, Mating Alignment, Keyed Mating Alignment Type, 9 Row, 10 Column, PCB Mount

Header, Vertical, IMPACT

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











Connector System: Board-to-Board

Number of Positions: 90

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

Mating Alignment: With

Mating Alignment Type: Keyed

### **Features**

### **Product Type Features**

Signal Arrangement	Differential
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Partially Shrouded
Connector & Contact Terminates To	Printed Circuit Board
Configuration Features	
Number of Ground Positions	30
Number of Pairs	30
Stackable	No
Number of Signal Positions	60
Number of Positions	90
Number of Rows	9
Number of Columns	10
PCB Mount Orientation	Vertical



Guide Location	Left
Electrical Characteristics	
Impedance	100 Ω
Operating Voltage	30 VAC
Signal Characteristics	
Number of Differential Pairs per Column	3
Data Rate	20 – 25 Gb/s
Body Features	
Primary Product Color	Black
Contact Features	
Contact Mating Area Length	4.5 mm[.177 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	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	
Guide Hardware	Without
Mating Retention	Without
PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail & Screw
Mating Alignment	With



Mating Alignment Type	Keyed
Connector Mounting Type	Board Mount
Housing Features	
Number of Shrouded Sides	2
End Wall Location	Open
Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm[.075 in]
Dimensions	
Connector Length	25.5 mm[1.004 in]
Connector Height	24.6 mm[.969 in]
Connector Width	16.7 mm[.657 in]
PCB Thickness (Recommended)	1 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	
Approved Standards	CSA Certified, UL E28476
UL Flammability Rating	UL 94V-0
Packaging Features	
Packaging Method	Box & Tube, 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 2023 (235) Candidate List Declared Against: JUNE 2023 (235)



$\square$	n 0 +	aantain	REACH	CV/IIC
DOES	$\Gamma(C)$	contain	KFAU.H	$\Sigma V \square U$

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

Not applicable for solder process capability

#### Product Compliance Disclaimer

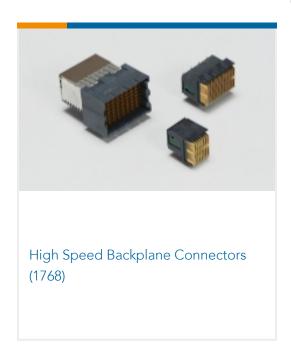
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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





## Also in the Series | IMPACT



# Customers Also Bought

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TE Part #7-1761614-5 STEP-Z PLUG 25MM 200P LF ST



TE Part #1888971-4 QSFP TB CAGE ASSY, W/LP, NO HS



TE Part #2-2170740-1 QSFP28, 1X3, CAGE ASSY, SPRING, HS, LP



TE Part #2007863-1 IMP100S,H,V5P16C,RG,LEW39,4.5



TE Part #2042139-2 RA Male Connector, IEC L3



TE Part #2185223-1 ASSY, SEATING TOOL, QSFP



TE Part #5-2170705-8 CAGE ASSY, QSFP28 1X1, SPRING, HS, C LP



TE Part #6600333-4 MBXL VERT HDR 2P+16S+2P



TE Part #ZPF00000000167184 732-8311-16

TE Part #2226412-1 ASSY PIN MODULE, 16-02 PCB RA, STD

### **Documents**

### **Product Drawings**

IMP100S,H,V3P10C,LG,OEW39,4.5

English

### **CAD Files**

**Customer View Model** 

ENG\_CVM\_CVM\_2007777-1\_B.2d\_dxf.zip

English

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_2007777-1\_B.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_2007777-1\_B.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

High Speed Backplane Interconnect Solutions Brochure 1654263-1

English

**Product Specifications** 

**Application Specification** 

English

**Product Environmental Compliance** 

MD\_2007777-1\_01252019659\_dmtec

English

MD\_2007777-1\_01252019659\_dmtec

English

**Agency Approvals** 

**Agency Approval Document** 

English