# 2007820-2 - ACTIVE

#### IMPACT

TE Internal #: 2007820-2 High Speed Backplane Connectors, 120 Position, Mating Alignment, Polarization Mating Alignment Type, 12 Row, 10 Column, PCB Mount Header, IMPACT

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



### Connector System: Board-to-Board

Number of Positions: 120

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

Mating Alignment: With

Mating Alignment Type: Polarization

### Features

### Product Type Features

Signal ArrangementDifferentialConnector SystemBoard-to-BoardPCB Connector Assembly TypePCB Mount Header

Shroud Style	Partially Shrouded
Connector & Contact Terminates To	Printed Circuit Board
Configuration Features	
Number of Ground Positions	40
Number of Pairs	40
Stackable	No
Number of Signal Positions	80
Number of Positions	120
Number of Rows	12
Number of Columns	10
PCB Mount Orientation	Vertical
Guide Location	Unguided
Electrical Characteristics	
Impedance	100 Ω
Operating Voltage	30 VAC

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### Signal Characteristics

Number of Differential Pairs per Column	4
Data Rate	20 – 25 Gb/s
Body Features	
Primary Product Color	Black
Contact Features	
Contact Mating Area Length	4.9 mm[.193 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
Mating Alignment	With
Mating Alignment Type	Polarization
Connector Mounting Type	Board Mount
Housing Features	
Number of Shrouded Sides	2

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End Wall Location	Open
Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm[.075 in]
Dimensions	
Connector Length	18.9 mm[.744 in]
Connector Height	11.95 mm[.47 in]
Connector Width	20.8 mm[.819 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

## 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) 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

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#### 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



High Speed Backplane Connectors (1768)

# **Customers Also Bought**

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TE Part #2061953-3 FULLAXS MINI BULKHEAD CAP, WITHOUT CORD

TE Part #2365496-1 74Pos, 25G, STR to STR, 100ohm, L200mm

### Documents

Product Drawings IMP100S,H,V4P10C,UG,OEW39,4.9

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2007820-2\_A.2d\_dxf.zip

English

Customer View Model ENG\_CVM\_CVM\_2007820-2\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2007820-2\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

**Product Specifications** 

**C** For support call+1 800 522 6752

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**Application Specification** 

English

Product Environmental Compliance TE Material Declaration

English

Agency Approvals

Agency Approval Document

English