

**IMPACT**

TE Internal #: 2007738-1

High Speed Backplane Connectors, Board-to-Board, 180 Position,
Mating Alignment, Polarization Mating Alignment Type, 18 Row, 10
Column, IMPACT

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Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors

Connector System: **Board-to-Board**Number of Positions: **180**Row-to-Row Spacing: **1.35 mm [.053 in]**Mating Alignment: **With**Mating Alignment Type: **Polarization****Features****Product Type Features**

Signal Arrangement	Differential
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Unshrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Ground Positions	60
Number of Pairs	60
Stackable	No
Number of Signal Positions	120
Number of Positions	180
Number of Rows	18
Number of Columns	10
PCB Mount Orientation	Right Angle
Guide Location	Unguided

Electrical Characteristics

Impedance	100 Ω
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Operating Voltage	30 VAC
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Signal Characteristics

Number of Differential Pairs per Column	6
Data Rate	20 – 25 Gb/s

Contact Features

Contact Layout	Inline
PCB Contact Termination Area Plating Material Thickness	1.27 μm [50 μin]
Contact Type	Socket
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	1.2 mm[.047 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

Mechanical Attachment

Mating Retention	Without
Guide Hardware	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	0
End Wall Location	None
Housing Material	LCP - GF (Liquid Crystal Polymer)



Housing Color	Black
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Centerline (Pitch)	1.9 mm[.075 in]
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Dimensions

Connector Length	19 mm[.748 in]
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Connector Height	27.1 mm[1.067 in]
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Connector Width	37.3 mm[1.469 in]
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PCB Thickness (Recommended)	1 mm
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PCB Hole Diameter	.46 mm[.018 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 File Number	E28476
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UL Rating	Recognized
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CSA Certified	Yes
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UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Box & Tube, Package
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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	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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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



TE Part # 2007884-1
[IMP100S,H,V6P10C,UG,OEW39,4,5](#)

Also in the Series | **IMPACT**

High Speed Backplane Connectors
 (1769)

Documents

Product Drawings

[IMP100S,R,RA6P10C,UG,46](#)

English

CAD Files

[3D PDF](#)

[3D](#)

Customer View Model

[ENG_CVM_CVM_2007738-1_B.2d_dxf.zip](#)

English



Customer View Model

[ENG_CVM_CVM_2007738-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2007738-1_B.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[Product Compliance](#)

English

[Product Compliance](#)

English

Agency Approvals

[Agency Approval Document](#)

English