

2132719-1 ✓ ACTIVE

IMPACT

TE Internal #: 2132719-1

High Speed Backplane Connectors, Board-to-Board, 180 Position, Mating Alignment, Guide Pin 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: **Guide Pin**

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
Backplane Architecture	Orthogonal
PCB Mount Orientation	Right Angle
Guide Location	Right

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
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Data Rate	20 – 25 Gb/s
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Contact Features

Contact Layout	Inline
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PCB Contact Termination Area Plating Material Thickness	.76 – 1.52 μm [30 – 60 μin]
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Contact Type	Socket
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Contact Underplating Material Thickness	1.27 μm [50 μin]
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Contact Mating Area Plating Material Thickness	.76 μm [29.92 – 59.84 μin]
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Contact Mating Area Plating Material	Gold
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PCB Contact Termination Area Plating Material Finish	Matte
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Contact Shape & Form	Dual Beam
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Contact Underplating Material	Nickel
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PCB Contact Termination Area Plating Material	Tin
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Contact Base Material	Copper Alloy
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Contact Current Rating (Max)	.75 A
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Termination Features

Termination Post & Tail Length	1.2 mm[.047 in]
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Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
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Mating Retention	Without
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Guide Hardware	With
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PCB Mount Retention	With
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PCB Mount Retention Type	Action/Compliant Tail & Screw
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Mating Alignment	With
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Mating Alignment Type	Guide Pin
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Connector Mounting Type	Board Mount
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Housing Features

Number of Shrouded Sides	0
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Housing Material	LCP (Liquid Crystal Polymer)
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Housing Color	Black
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Centerline (Pitch)	1.9 mm[.075 in]
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Dimensions

Connector Length	28.35 mm[1.16 in]
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Connector Height	25.4 mm[1 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	.39 mm[.015 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

For Use With	Orthogonal Receptacle Assembly
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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, 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	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
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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 # 2143255-2
IMP1000,HMP,V6P10C,UG,DEW39,5.5



TE Part # 2018773-1
TL, SEAT, 6PR 10COL ORTHOGONAL

Also in the Series | IMPACT



High Speed Backplane Connectors
(1769)

Documents

Product Drawings

IMP1000,R,RA6P10C,RG,39

English

CAD Files

3D PDF

3D



Customer View Model

[ENG_CVM_CVM_2132719-1_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2132719-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2132719-1_B.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English

Agency Approvals

[Agency Approval Document](#)

English