2057410-1 ✔ ACTIVE

IMPACT

TE Internal #: 2057410-1

96 Position, Mating Alignment, Guide Slot Mating Alignment Type, 6 Row, 16 Column, PCB Mount Receptacle, IMPACT, High Speed Backplane Connectors

View on TE.com >

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







EU RoHS Compliance: **Compliant**

EU ELV Compliance: **Compliant**

Number of Positions: **96**

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

Mating Alignment: **With**

Features

Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

Product Type Features

Signal Arrangement	Differential
Connector & Contact Terminates To	Printed Circuit Board
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Unshrouded

Configuration Features

Number of Pairs	32
Number of Ground Positions	32
Number of Signal Positions	64
Stackable	No
Number of Positions	96

Number of Rows	6
Number of Columns	16
PCB Mount Orientation	Right Angle
Guide Location	Right

Electrical Characteristics

Operating Voltage	30 VDC
Impedance	100 Ω

Signal Characteristics

Data Rate	20 – 25 Gb/s
Number of Differential Pairs per Column	2

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.762 µm[30 µin]
PCB Contact Termination Area Plating Material Thickness	1.27 µm[50 µin]
Contact Shape & Form	Dual Beam
Contact Layout	Inline
Contact Mating Area Plating Material	Gold
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Socket
Contact Current Rating (Max)	.75 A

Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.2 mm[.047 in]

Mechanical Attachment

Guide Hardware	With
PCB Mount Retention	With
Mating Retention	Without

PCB Mount Retention Type	Action/Compliant Tail & Screw
PCB Mount Alignment Type	Locating Posts
Mating Alignment	With
Mating Alignment Type	Guide Slot
Connector Mounting Type	Board Mount

Housing Features

Number of Shrouded Sides	0
End Wall Location	None
Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm[.075 in]

Dimensions

PCB Thickness (Recommended)	1.6 mm
Connector Width	20.1 mm[.791 in]
PCB Hole Diameter	.39 mm[.015 in]
Connector Height	10.9 mm[.429 in]
Connector Length	38 mm[1.496 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

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

Packaging Features

Packaging Method	Tube, Box & 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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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

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

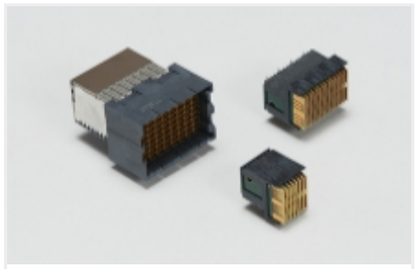


TE Part # 2057748-1
IMP100S,H,V2P16C,UG,OEW39,4.5



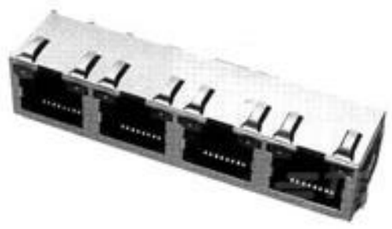
TE Part # 2018539-1
TOOL, SEAT 2 PR 16 COL,BP CONN

Also in the Series | IMPACT

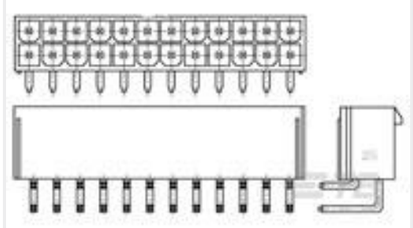


High Speed Backplane Connectors (149)

Customers Also Bought



TE Part #5406552-1
INV MJ,1X4,PNL GRD, LED (G/Y)



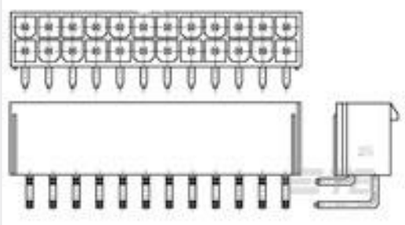
TE Part #1586041-8
8P VAL-U-LOK R/A HDR V2



TE Part #2065657-1
zd Plus, 4 pair, receptacle assy



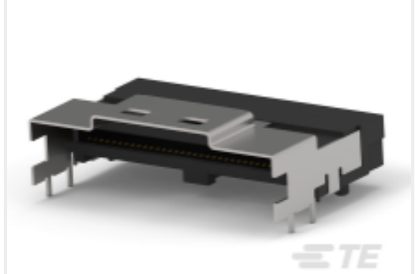
TE Part #2118706-2
1 PC STD SHIELD, CRS-13.66X12.70X2.54MM



TE Part #1-1586041-0
10P VAL-U-LOK R/A HDR V2



TE Part #2170507-5
1X3 QSFP CAGE ASSY



TE Part #2356320-5
SlimSAS x8 REC R/A



TE Part #2143315-3
IMP100S,H,RA2P16C,RG,OEW39,5.5

TE Part #2169315-6
SFP+ Heatsink, SAN 6.5mm

Documents

Product Drawings

IMP100S,R,RA2P16C,RG,39

English

CAD Files

Customer View Model

ENG_CVM_CVM_2057410-1_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2057410-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2057410-1_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

Product Specifications

Application Specification

English

Application Specification

English

Agency Approvals

Agency Approval Document

English