2007716-1 ✔ ACTIVE

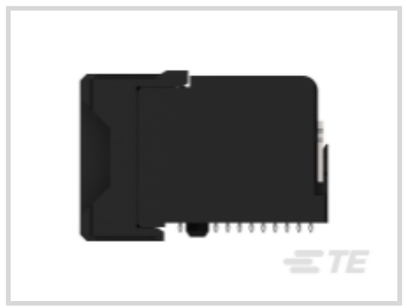
IMPACT

TE Internal #: 2007716-1

120 Position High Speed Backplane Connector, 12 Row, 10 Column, PCB Mount Receptacle, Right Angle, Unshrouded, 1.9 mm [.075 in] Centerline, IMPACT

View on TE.com >

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


Number of Positions: **120**

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

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Number of Rows: **12**

Features

Product Type Features

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

Configuration Features

Number of Pairs	40
Number of Ground Positions	40
Number of Signal Positions	80
Stackable	No
Number of Positions	120
Number of Rows	12
Number of Columns	10
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	4

Body Features

Primary Product Color	Black

Contact Features

Contact Underplating Material	Nickel
Contact Underplating Material Thickness	1.27 µm[50 µin]
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 (Au)
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	Keyed

Connector Mounting Type	Board Mount

Housing Features

Number of Shrouded Sides	0
Housing Material	LCP GF
Centerline (Pitch)	1.9 mm[.075 in]

Dimensions

PCB Thickness (Recommended)	1 mm
Connector Width	28.2 mm[1.11 in]
PCB Hole Diameter	.39 mm[.015 in]
Connector Height	17.3 mm[.681 in]
Connector Length	26.6 mm[1.047 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	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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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

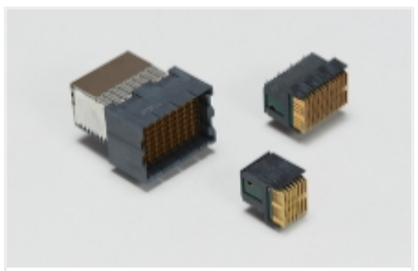
Product Compliance Disclaimer

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

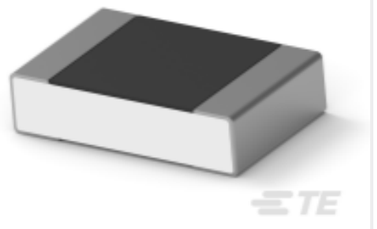
TE Part # 2007820-2
IMP100S,H,V4P10C,UG,OEW39,4.9

Also in the Series | IMPACT



High Speed Backplane Connectors (149)

Customers Also Bought

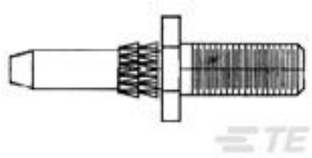


TE Part #2-2176381-7
RQ 0805 23K2 0.1% 10PPM 5K RL

TE Part #204530-1
AMPLIMITE,ASY,RCPT,FB,90,4

TE Part #1934342-1
Tin Man Header Assy 3x10 Double

TE Part #205419-1
RECEPT ASSY,37 POSN,AMPLIMITE



TE Part #531117-1
EXTERNAL KEY METAL

TE Part #202758-3
6 PL. BLOCK

TE Part #2007741-1
IMP100S,R,RA6P10C,UG,39

TE Part #2313444-1
MULTIBEAM 270V, VERTICAL FIN, VITA 62

TE Part #2007739-1
IMP100S,R,RA6P10C,LG,39

TE Part #A65285-000
KTT-381127-5-1A

Documents

CAD Files

Customer View Model

ENG_CVM_CVM_2007716-1_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2007716-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2007716-1_A.3d_stp.zip

English

Datasheets & Catalog Pages

7-1773458-1_IMPACT_BACKPLANE_CONNECTOR_SYSTEM_CATALOG

English

Product Specifications

Application Specification

English

Agency Approvals

Agency Approval Document

English