2007825-1 ✔ ACTIVE

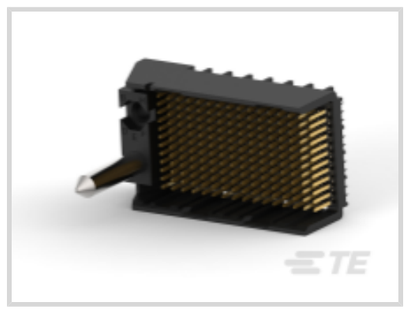
IMPACT

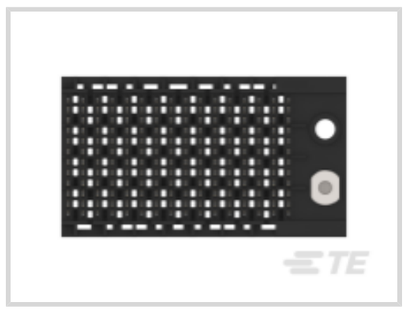
TE Internal #: 2007825-1

192 Position High Speed Backplane Connector, 12 Row, 16 Column, PCB Mount Header, Vertical, Partially Shrouded, 1.9 mm [.075 in] Centerline, IMPACT

View on TE.com >

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




Number of Positions: **192**

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

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Number of Rows: **12**

Features

Electrical Characteristics

Operating Voltage	30 VDC
Impedance	100 Ω

Signal Characteristics

Data Rate	20 – 25 Gb/s
Number of Differential Pairs per Column	4

Industry Standards

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

Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.4 mm[.055 in]

Body Features

Primary Product Color	Black

Packaging Features

Packaging Method	Tube, Box & Tube

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	.76 µm[29.92 µin]
PCB Contact Termination Area Plating Material Thickness	.76 – 1.52 µm[30 – 60 µin]
Contact Shape & Form	Dual Beam
Contact Layout	Inline
Contact Mating Area Plating Material	Gold
Contact Mating Area Length	4.5 mm[.177 in]
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	.75 A

Housing Features

Number of Shrouded Sides	2
End Wall Location	Open
Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm[.075 in]

Product Type Features

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

Mechanical Attachment

Guide Hardware	With
PCB Mount Retention	With
Mating Retention	Without
PCB Mount Retention Type	Action/Compliant Tail & Screw

Mating Alignment	With
Mating Alignment Type	Keyed
Connector Mounting Type	Board Mount

Dimensions

PCB Thickness (Recommended)	1 mm
Connector Width	20.8 mm[.819 in]
PCB Hole Diameter	.39 mm[.015 in]
Connector Height	24.6 mm[.969 in]
Connector Length	36.9 mm[1.453 in]
Row-to-Row Spacing	1.35 mm[.053 in]

Configuration Features

Number of Pairs	64
Number of Ground Positions	64
Number of Signal Positions	128
Stackable	No
Number of Positions	192
Number of Rows	12
Number of Columns	16
PCB Mount Orientation	Vertical
Guide Location	Left

Usage Conditions

Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]

Operation/Application

Circuit Application	Signal

Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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

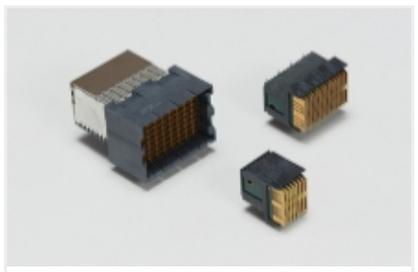
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 2007723-1
IMP100S,R,RA4P16C,UG,39

Also in the Series | IMPACT



High Speed Backplane Connectors (149)

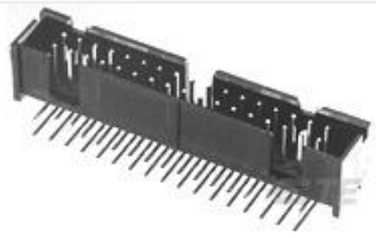
Customers Also Bought



TE Part #3-2176058-1
RLP73K 3A R18 5% 2K RL



TE Part #5-532955-7
40 MODII 2PC CE RCPT ASSY, RoHS



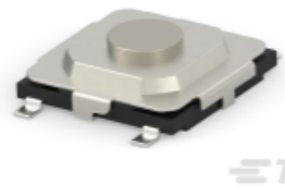
TE Part #5103310-1
A/L LOW PRO HDR 10P RA BLACK



TE Part #5-2176094-1
RP 2A 0.25W 402K 0.1% 25PPM 1K RL



TE Part #2176088-7
RP 1J 0.166W 866R 0.1% 25PPM 1K RL



TE Part #2337237-3
TACT MINI GW 5.2X5.2X1.5 160GF



TE Part #2-1393224-6
RYA51005



TE Part #2007721-1
IMP100S,R,RA4P16C,LG,39



TE Part #32859-1
BUDGET,RING,26-22,8,UNPLTD

TE Part #2338718-3
Receptacle Assembly, 4C HI Power

Documents

CAD Files

Customer View Model

ENG_CVM_CVM_2007825-1_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2007825-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2007825-1_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

Agency Approvals

Agency Approval Document

English