2007788-1 ✓ ACTIVE

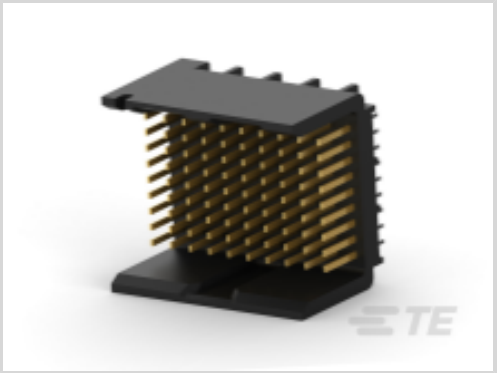
IMPACT

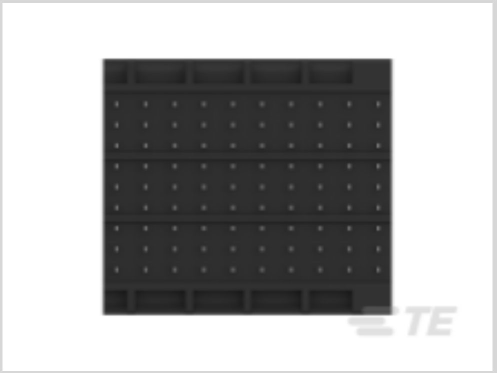
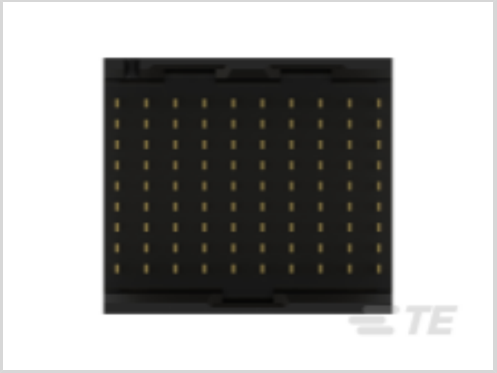
TE Internal #: 2007788-1

High Speed Backplane Connectors, 90 Position, Mating Alignment, Polarization Mating Alignment Type, 9 Row, 10 Column, PCB Mount Header, IMPACT

View on TE.com >

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



Connector System: **Board-to-Board**

Number of Positions: **90**

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 Header
Shroud Style	Partially Shrouded
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Ground Positions	30
Number of Pairs	30
Stackable	No
Number of Signal Positions	60
Number of Positions	90
Number of Rows	9
Number of Columns	10
PCB Mount Orientation	Vertical

Guide Location	Unguided

Electrical Characteristics

Impedance	100 Ω
Operating Voltage	30 VAC

Signal Characteristics

Number of Differential Pairs per Column	3
Data Rate	20 – 25 Gb/s

Body Features

Primary Product Color	Black

Contact Features

Contact Mating Area Length	4.5 mm[.177 in]
PCB Contact Termination Area Plating Material Thickness	.76 – 1.52 µm[30 – 60 µin]
Contact Layout	Inline
Contact Type	Pin
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	1.4 mm[.055 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

Mechanical Attachment

Guide Hardware	Without
Mating Retention	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	2
End Wall Location	Open
Housing Material	LCP - GF (Liquid Crystal Polymer)
Centerline (Pitch)	1.9 mm[.075 in]

Dimensions

Connector Length	18.9 mm[.744 in]
Connector Height	11.95 mm[.47 in]
Connector Width	16.7 mm[.657 in]
PCB Thickness (Recommended)	1 mm
PCB Hole Diameter	.36 mm[.014 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

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

Packaging Features

Packaging Method	Box & Tube, Package

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 2023 (235) Candidate List Declared Against: JUNE 2023 (235)

	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

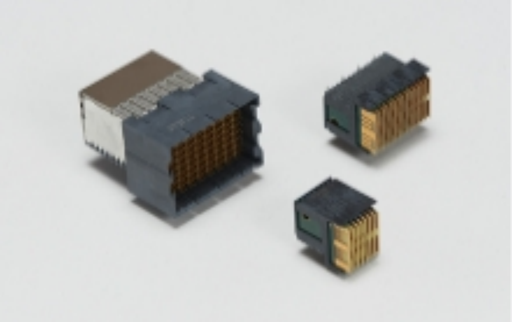
TE Part # 2007705-1

IMP100S,R,RA3P10C,UG,39

TE Part # 2018377-1

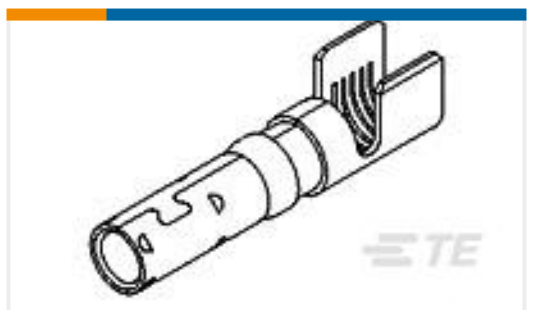
TOOL, SEAT 3 PR 10 COL, BP CONN

Also in the Series | IMPACT



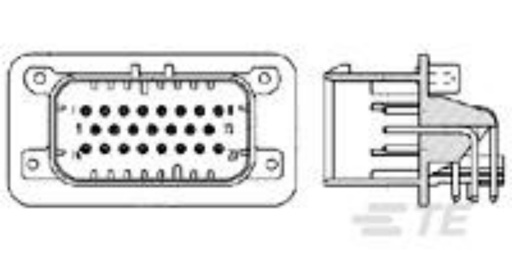
High Speed Backplane Connectors (1321)

Customers Also Bought



TE Part #213847-1

POWERBAND CONT ASSY,SILVER PLT



TE Part #1-776280-2

8POS,PIN DIA 1.3,HDR ASSY,90DEG, COD 2

TE Part #1-2176057-3

RLP73M 3A R033 1% 1K RL

TE Part #E40866-000

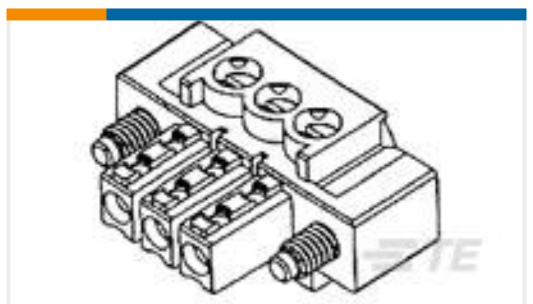
RNF-100-MINI-SPL-3/4-BK

TE Part #T4145515041-001

M12 R/A F PNLREAR STAMPED PIN D-CODE 4P

TE Part #5749265-1

Mini DIN, 6 pos, R/A, Shield



TE Part #284511-6

6 POS TERMI-BLOK PLUG C. VITI

TE Part #1-1879417-0

CPF 0603 430K 0.1% 25PPM 1K RL

TE Part #2-2176327-5

CRGP 0805 1K0 1%

TE Part #2309413-3

DDR4 SODIMM 260P 9.2H STD

Documents

Product Drawings

IMP100S,H,V3P10C,UG,OEW39,4.5

English

CAD Files

Customer View Model

ENG_CVM_CVM_2007788-1_B.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2007788-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2007788-1_B.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