



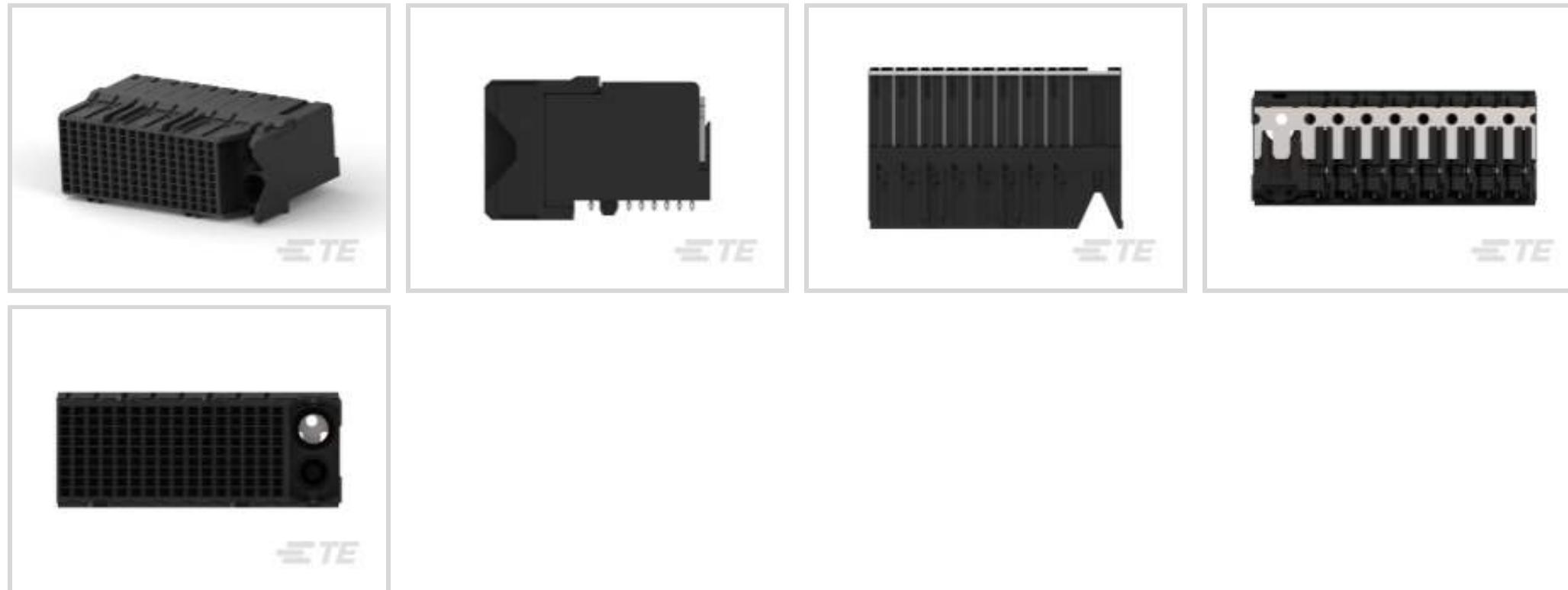
IMPACT

TE Internal #: 2007710-1

High Speed Backplane Connectors, 144 Position, Mating Alignment, Keyed Mating Alignment Type, 9 Row, 16 Column, PCB Mount Receptacle, IMPACT

[View on TE.com >](#)

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



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

Number of Positions: **144**

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

Mating Alignment: **With**

Mating Alignment Type: **Keyed**

Features

Product Type Features

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

Configuration Features

Number of Ground Positions	48
Number of Pairs	48
Stackable	No
Number of Signal Positions	96
Number of Positions	144
Number of Rows	9
Number of Columns	16
PCB Mount Orientation	Right Angle



Guide Location	Right
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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
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Contact Features

PCB Contact Termination Area Plating Material Thickness	1.27 μm [50 μin]
Contact Layout	Inline
Contact Type	Socket
Contact Underplating Material Thickness	1.27 μm [50 μin]
Contact Mating Area Plating Material Thickness	.762 μm [30 μin]
Contact Mating Area Plating Material	Gold
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	1.2 mm[.047 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

Mechanical Attachment

PCB Mount Alignment Type	Locating Posts
Guide Hardware	With
Mating Retention	Without
PCB Mount Retention	With
PCB Mount Retention Type	Action/Compliant Tail & Screw
Mating Alignment	With
Mating Alignment Type	Keyed



Connector Mounting Type

Board Mount

Housing Features

Number of Shrouded Sides

0

Housing Material

LCP - GF (Liquid Crystal Polymer)

Centerline (Pitch)

1.9 mm[.075 in]

Dimensions

Connector Length

38 mm[1.496 in]

Connector Height

13.3 mm[.524 in]

Connector Width

24.2 mm[.953 in]

PCB Thickness (Recommended)

1 mm

PCB Hole Diameter

.39 mm[.015 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

Approved Standards

CSA Certified, UL E28476

UL Flammability Rating

UL 94V-0

Packaging Features

Packaging Method

Box & Tube, Tube

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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: JAN 2023 (233)
 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 # 2007797-1
IMP100S,H,V3P16C,RG,OEWS39,4,5



TE Part # 2007799-1
IMP100S,H,V3P16C,RG,LEWS39,4,5



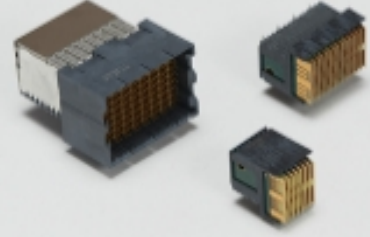
TE Part # 2007804-2
IMP100S,H,V3P16C,UG,OEWS39,4,9



SEATING TOOL
REPRESENTATIONAL IMAGE ONLY.
WILL VARY BY PART NUMBER.

TE Part # 2018381-1
TOOL, SEAT 3 PR 16 COL, BP CONN

Also in the Series | IMPACT



High Speed Backplane Connectors
(1768)

Customers Also Bought



TE Part #292336-1
Std USB Type A, Flag, T/H



TE Part #2201778-1
MICRO SD PUSH PUSH LOW PROFILE TYPE



TE Part #640445-5
05P MTA156 HDR ASSY FL/STR SN



TE Part #1-6450160-0
MBXL R/A RCPT 2P+24S+2P



TE Part #292230-4
1.5 MINI CT SGL V SMT W/BOSS 4



TE Part #2176308-6
RP 1E 0.1W 150K 0.1% 25PPM 5K RL



TE Part #1565917-4
EMBOSS ASSY DDR2 SODIMM
SOCKET 200P 5.2H



TE Part #2007831-3
IMP100S,H,V4P16C,RG,LEW39,5.5

Documents

Product Drawings

[IMP100S,R,RA3P16C,RG,39](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_2007710-1_D.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2007710-1_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2007710-1_D.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

Product Environmental Compliance

[MD_2007710-1_06292016954_dmtec](#)

English

[MD_2007710-1_06292016954_dmtec](#)

English

Agency Approvals

[Agency Approval Document](#)

English