IMP100S,H,V4P16C,UG,DEW39,4.5 ✔ ACTIVE

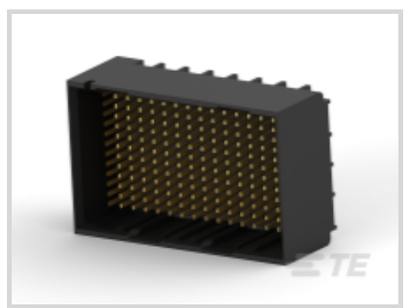
IMPACT

TE Part # 2007838-1

TE Internal #: 2007838-1

View on TE.com >

Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors







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

Number of Positions: **192**

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

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Features

Product Type Features

Make First / Break Last	No
Product Type	Connector
Signal Arrangement	Differential
Connector Type	Header
Connector System	Board-to-Board
Row-to-Row Spacing	1.35 mm[.053 in]
Connector Style	Plug
Shrouded	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Ground Positions	64
Number of Pairs	64
Stackable	No
Number of Signal Positions	128

Number of Positions	192
Number of Rows	12
Number of Columns	16
Board-to-Board Configuration	Right Angle, Vertical
PCB Mount Orientation	Vertical
Guide Location	Unguided

Electrical Characteristics

Operating Voltage	30 VDC
Impedance	100 Ω

Signal Characteristics

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

Contact Features

Contact Type	Pin
Underplate Material Thickness	1.27 µm[50 µin]
Contact Transmits (Typical)	Signal (Data)
Contact Layout	Inline
PCB Contact Termination Area Plating Material Thickness	.76 – 1.52 µm[30 – 60 µin]
Contact Design	Dual Beam
Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Thickness	.76 µm[29.92 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Gold
Contact Length	4.5 mm[.177 in]
Contact Underplating Material	Nickel
Contact Base Material	Copper Alloy
Contact Current Rating (Max)	.75 A

Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit

Mechanical Attachment

Mating Retention	Without
Guide Hardware	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

End Wall Location	Dual
Housing Material	LCP - GF (Liquid Crystal Polymer)
Housing Color	Black
Centerline (Pitch)	1.9 mm[.075 in]

Dimensions

Height	11.95 mm[.47 in]
PCB Thickness (Recommended)	1 mm
Stack Height	11.95 mm
Width	20.8 mm[.819 in]
Tail Length	1.4 mm[.055 in]
Length	33.1 mm[1.303 in]
PCB Hole Diameter	.39 mm[.015 in]

Usage Conditions

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

Operation/Application

For Use With	Receptacle Assembly
Circuit Application	Signal

Industry Standards

UL File Number	E28476
UL Rating	Recognized
CSA Certified	Yes
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>

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 2019 (197) Candidate List Declared Against: JUN 2012 (84)
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer

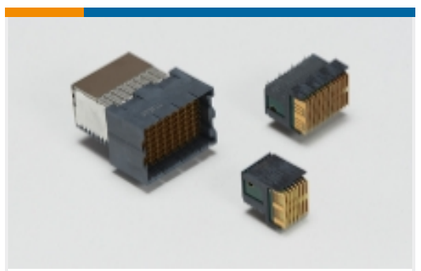
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



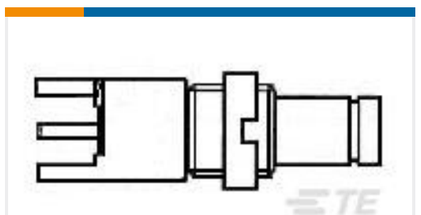
TE Part # 2007723-1
IMP100S,R,RA4P16C,UG,39

Also in the Series | IMPACT

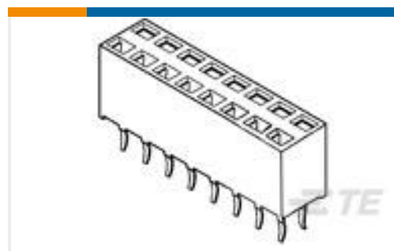


High Speed Backplane Connectors(1824)

Customers Also Bought



TE Part #8-1393670-3
V23614A1027J 1=LP-KUPPLER



TE Part #2-215309-5
2X25P HV100 REC CON. TE, 8.5MM



TE Part #1-969973-2
2x12P HV100 REC. CON, SMD, GOLD, BLISTER



TE Part #207654-1
KEYING PLUG



TE Part #1-1825002-7
ADF1004=DIP SWT,FLUSH, THRU/HL



TE Part #4-1622825-6
RL73K 3A R27 5% 4K RL



TE Part #2-969973-0
2x20P HV100 REC. CON, SMD, GOLD, BLISTER



TE Part #2007834-3
IMP100S,H,V4P16C,UG, DEW46,5.5



TE Part #2007838-3
IMP100S,H,V4P16C,UG, DEW39,5.5



TE Part #2057432-3
IMP100S,H,V2P10C,UG, DEW39,5.5

Documents

Product Drawings

IMP100S,H,V4P16C,UG,DEW39,4.5

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2007838-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2007838-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2007838-1_A.3d_stp.zip

English

Datasheets & Catalog Pages

7-1773458-1_IMPACT_BACKPLANE_CONNECTOR_SYSTEM_CATALOG

English

Product Specifications

Application Specification

English