IMP100S,H,V4P10C,UG,OEW46,4.5
 \checkmark active

IMPACT

TE Part # 2007816-1 TE Internal #: 2007816-1 View on TE.com >



Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



Connector System: Board-to-Board Number of Positions: 120 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	Partially Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Configuration Features	
Number of Ground Positions	40
	40 40
Number of Ground Positions	
Number of Ground Positions Number of Pairs	40
Number of Ground Positions Number of Pairs Stackable	40 No
Number of Ground Positions Number of Pairs Stackable Number of Signal Positions	40 No 80
Number of Ground PositionsNumber of PairsStackableNumber of Signal PositionsNumber of Positions	40 No 80 120
Number of Ground PositionsNumber of PairsStackableNumber of Signal PositionsNumber of PositionsNumber of Rows	40 No 80 120
Number of Ground PositionsNumber of PairsStackableNumber of Signal PositionsNumber of PositionsNumber of RowsNumber of Columns	40 No 80 120 12

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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
Fermination 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

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Housing Features

End Wall Location	Open
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	18.9 mm[.744 in]
PCB Hole Diameter	.46 mm[.018 in]
Usage Conditions	
Operating Temperature Range	-55 – 85 °C[-67 – 185 °F]
Operation/Application	

For Use With

Receptacle Assembly

Circuit Applic	ation
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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

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)

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Not Yet Reviewed

Not Yet Reviewed for halogen content

Halogen Content

Solder Process Capability

Not applicable for solder process capability

Product Compliance Disclaimer

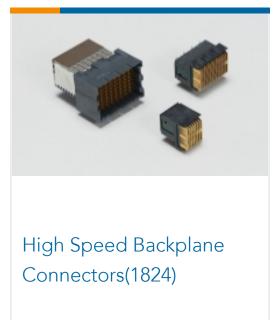
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 2007711-1 IMP100S,R,RA3P16C,UG,39

Also in the Series | IMPACT

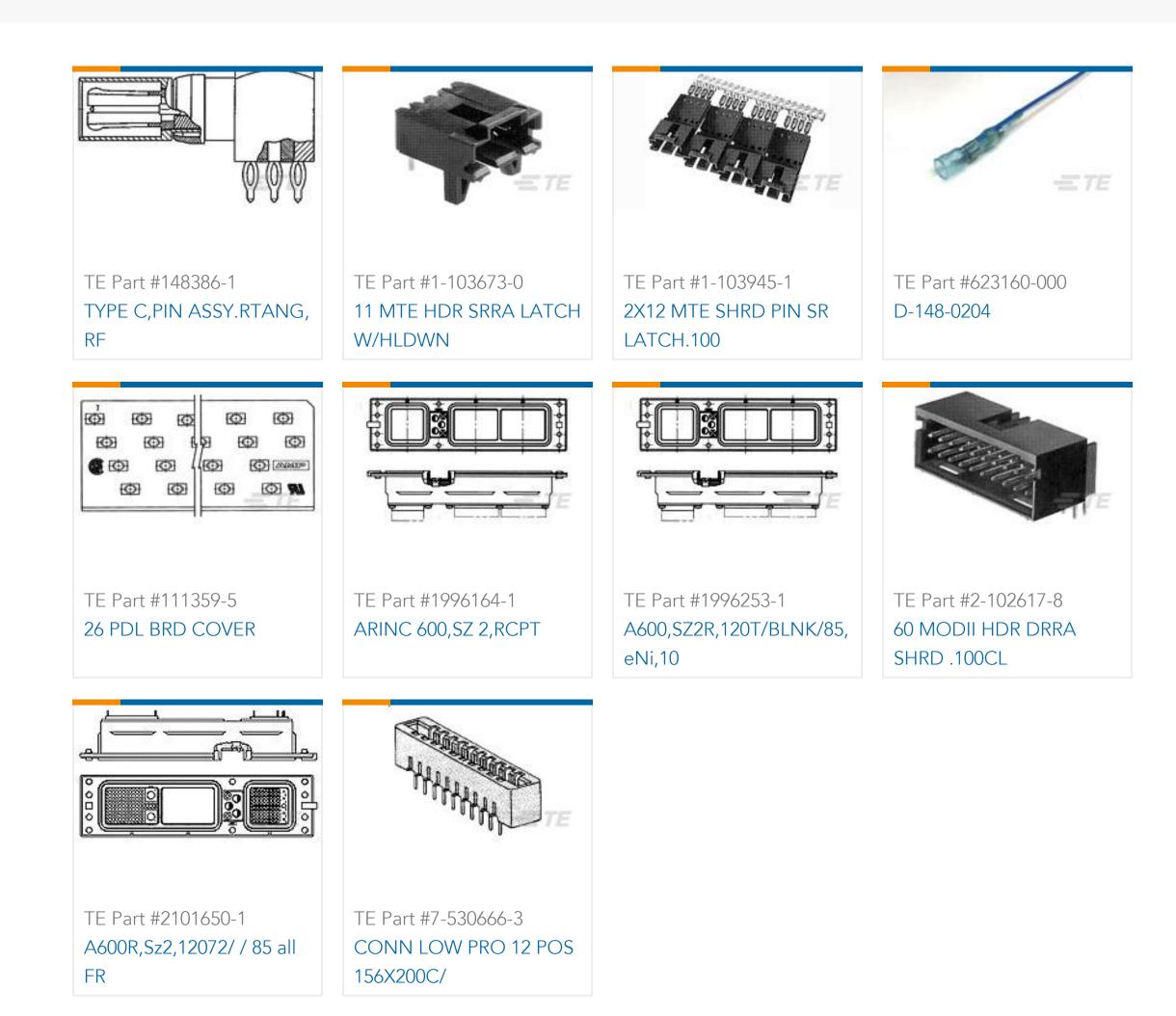


Customers Also Bought

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TE Part # 2007816-1 TE Internal #: 2007816-1





Documents

Product Drawings IMP100S,H,V4P10C,UG,OEW46,4.5

English

CAD Files

3D PDF

3D

Customer View Model ENG_CVM_CVM_2007816-1_1.2d_dxf.zip

English

Customer View Model ENG_CVM_CVM_2007816-1_1.3d_igs.zip

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Customer View Model

ENG_CVM_CVM_2007816-1_1.3d_stp.zip

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Product Specifications Application Specification

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English

