



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



Number of Positions: 50  
Row-to-Row Spacing: 3.5 mm [ .138 in ]  
Mating Alignment: With  
Mating Alignment Type: Polarization  
Number of Rows: 10

Features

Product Type Features

Backplane Module Type	Right
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
PCB Connector Assembly Type	PCB Mount Header
Shroud Style	Partially Shrouded

Configuration Features

Stackable	No
Backplane Architecture	Traditional Backplane
Number of Positions	50
Number of Rows	10
Number of Columns	5
PCB Mount Orientation	Vertical

Electrical Characteristics

Operating Voltage	250 VAC
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Signal Characteristics

Number of Differential Pairs per Column	5
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Body Features

Guide Pin Style	Compliant
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Primary Product Color	Black
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Contact Features

Contact Mating Area Length	1.8 mm, 3.7 mm[.071 in][.146 in]
Contact Type	Pin
Contact Mating Area Plating Material Thickness	.5 µm[19.68 µin]
Contact Mating Area Plating Material	Tin
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	Phosphor Bronze
Contact Current Rating (Max)	1.15 A

Termination Features

Termination Post & Tail Length	3.7 mm[.055 in][.146 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
Housing Material	Polyester - GF
Centerline (Pitch)	2.5 mm[.098 in]

Dimensions

Connector Length	22.29 mm[.878 in]
Connector Height	11.8 mm[.464 in]
Connector Width	24 mm[.945 in]
PCB Thickness (Recommended)	1.4 mm



PCB Hole Diameter	.05 mm[.002 in]
Row-to-Row Spacing	3.5 mm[.138 in]

Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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Operation/Application

Circuit Application	Signal
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Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Tube
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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 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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 # 5120794-1  
ZP HS3 DB 10R REC 050P RT PD P

Also in the Series

Z-PACK HS3

Connector Caps & Covers(2)

Connector Hardware(1)

High Speed Backplane Connectors(39)

Customers Also Bought

TE Part #102557-1  
40 MODII HDR DRST SHRD A/PIN

TE Part #YDTS24W13-35BAV001  
RECP ASSY

TE Part #YDTS26W19-35BNV001  
PLUG ASSY

TE Part #3-1589477-1  
STM037SC2DC012N = WDUALOBE

TE Part #211431-8  
SKT CONT ASSY, SZ 22

TE Part #1-1532254-0  
M83513/10-E03CP = MCKS-C2-P-31PRT1B

TE Part #5-330873-0  
TWIN THREADED PCB RCPT

TE Part #5120661-2  
Z-PACK HS3 HDR ASY 10R 50P

TE Part #531117-1  
EXTERNAL KEY METAL

TE Part #91375-2  
SEATING TOOL, HMZD HDR, 3 PAIR



Documents

Product Drawings

Z-PACK HS3 HDR ASY 10R 50P

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5120752-1\_B.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5120752-1\_B.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5120752-1\_B.3d\_stp.zip

English

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Product Specifications

Application Specification

English