

5120794-1 ✓ ACTIVE

Z-PACK | Z-PACK HS3

TE Internal #: 5120794-1

High Speed Backplane Connectors, Board-to-Board, 50 Position,
Mating Alignment, Polarization Mating Alignment Type, 10 Row, 5
Column, Z-PACK HS3

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Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



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

Number of Positions: **50**

Row-to-Row Spacing: **2 mm [.078 in]**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Features

Product Type Features

Backplane Module Type	Right
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Unshrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

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

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	Universal Power Module
Shield Material	Phosphor Bronze

Contact Features

Contact Type	Receptacle
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	Copper Alloy
Contact Current Rating (Max)	1.15 A

Termination Features

Termination Post & Tail Length	2.1 mm[.083 in]
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

Number of Shrouded Sides	0
Housing Material	Polyester - GF
Housing Color	Black
Centerline (Pitch)	2 mm[.079 in]

Dimensions

Connector Length	21.62 mm[.851 in]
Connector Height	11.95 mm[.47 in]



Connector Width	28.67 mm[.831 in]
PCB Thickness (Recommended)	1.4 mm[.055 in]
PCB Hole Diameter	.05 mm
Row-to-Row Spacing	2 mm[.078 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: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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 # 5120670-1
Z-PACK HS3 HDR ASY 10R 50P



TE Part # 5120670-2
Z-PACK HS3 HDR ASY 10R 50P

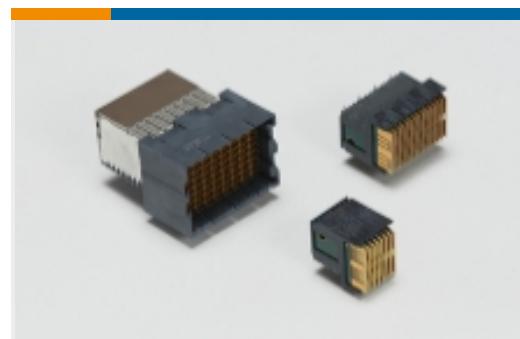


TE Part # 5120752-1
Z-PACK HS3 HDR ASY 10R 50P

Also in the Series | Z-PACK HS3



Header & Receptacle Guide Hardware
(1)



High Speed Backplane Connectors(39)



PCB Connector Shrouds(2)

Documents

Product Drawings

[ZP HS3 DB 10R REC 050P RT PD P](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_5120794-1_O1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_5120794-1_O1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_5120794-1_O1.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English