

TE Internal #: 5120670-1
50 Position High Speed Backplane Connector, 10 Row, 5 Column,
PCB Mount Header, Vertical, Partially Shrouded, 2.5 mm [.098 in]
Centerline, Z-PACK HS3

[View on TE.com >](#)



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

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

Configuration Features

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

Electrical Characteristics

Operating Voltage	250 VAC
-------------------	---------

Signal Characteristics

Number of Differential Pairs per Column	5
---	---

Body Features

Guide Pin Style	Universal Power Module
-----------------	------------------------



Primary Product Color	Black
Contact Features	
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Thickness	.5 µm[19.68 µin]
Contact Shape & Form	Dual Beam
Contact Mating Area Plating Material	Tin (Sn)
Contact Mating Area Length	6.8 mm[.268 in]
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	1.15 A
Termination Features	
Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	3.7 mm[.146 in]
Mechanical Attachment	
Guide Hardware	Without
PCB Mount Retention	With
Mating Retention	Without
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	
PCB Thickness (Recommended)	1.4 mm
Connector Width	24 mm
PCB Hole Diameter	.05 mm[.001 in]
Connector Height	11.95 mm[.47 in]
Connector Length	22.29 mm[.896 in][.945 in]



Row-to-Row Spacing	3.5 mm[.138 in]
--------------------	-----------------

Usage Conditions

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

Operation/Application

Circuit Application	Signal
---------------------	--------

Industry Standards

UL Flammability Rating	UL 94V-0
------------------------	----------

Packaging Features

Packaging Method	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 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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

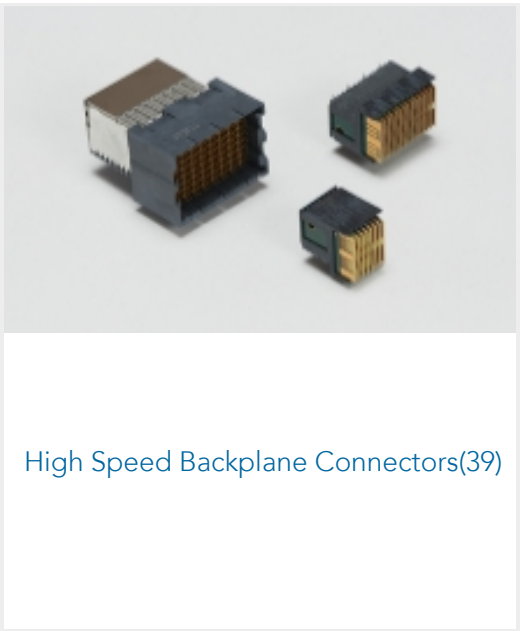
Product Compliance Disclaimer

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



Also in the Series | **Z-PACK HS3**



Customers Also Bought



Documents

Product Drawings
[Z-PACK HS3 HDR ASY 10R 50P](#)

English

CAD Files
Customer View Model
[ENG_CVM_CVM_5120670-1_B.2d_dxf.zip](#)



English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5120670-1_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5120670-1_B.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[High Speed Backplane Connectors catalog - Z-PACK HS3 Connector](#)

English

Product Specifications

[Application Specification](#)

English