5120790-1 ✔ ACTIVE

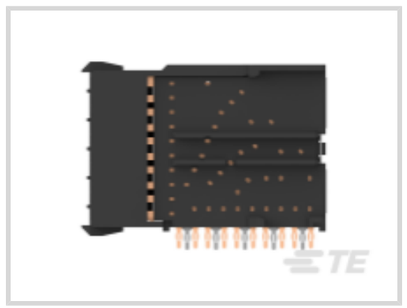
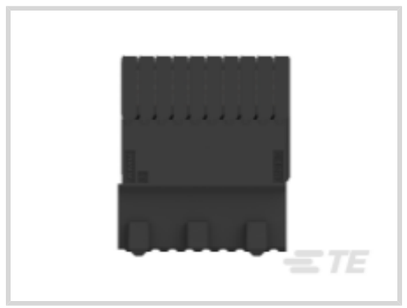
Z-PACK | Z-PACK HS3

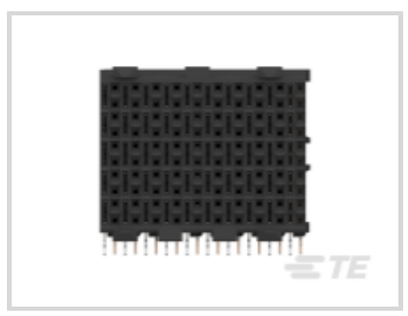
TE Internal #: 5120790-1

High Speed Backplane Connectors, 100 Position, Mating Alignment, Polarization Mating Alignment Type, 10 Row, 10 Column, Z-PACK HS3

View on TE.com >

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



Number of Positions: **100**

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

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Number of Rows: **10**

Features

Product Type Features

Backplane Module Type	Center
Connector System	Board-to-Board
Connector & Contact Terminates To	Printed Circuit Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Unshrouded

Configuration Features

Stackable	No
Backplane Architecture	Traditional Backplane
Number of Positions	100
Number of Rows	10
Number of Columns	10
PCB Mount Orientation	Right Angle

Electrical Characteristics

Operating Voltage	250 VAC

Signal Characteristics

Number of Differential Pairs per Column	5

Body Features

Shield Material	Phosphor Bronze
Primary Product Color	Black

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[.055 in][.083 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	0
Housing Material	Polyester - GF
Centerline (Pitch)	2.5 mm[.098 in]

Dimensions

Connector Length	25.48 mm[1.003 in]

Connector Height	11.95 mm[.47 in]
Connector Width	21.1 mm[.831 in]
PCB Thickness (Recommended)	1.4 mm
PCB Hole Diameter	.05 mm[.002 in]
Row-to-Row Spacing	2 mm[.078 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 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 # 5120658-1
Z-PACK HS3 HDR ASY 10R 100P



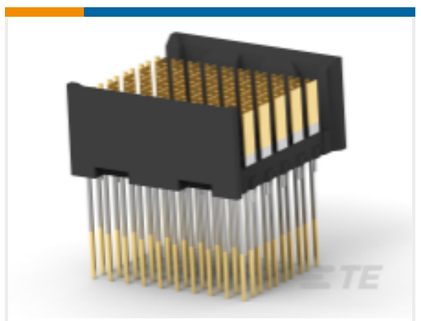
TE Part # 5120658-2
Z-PACK HS3 HDR ASY 10R 100P



TE Part # 5120663-1
Z-PACK HS3 SHR ASY 10R 100 P



TE Part # 5120664-1
Z-PACK HS3 HDR ASY 10R 100P



TE Part # 5120664-2
Z-PACK HS3 HDR ASY 10R 100P



TE Part # 5120753-1
Z-PACK HS3 HDR ASY 10R 100P,HL



TE Part # 5120881-1
HS3 PIN SSY, 100 POSN FEED THR



TE Part # 5120909-1
10 ROW HS3 PIN ASSEMBLY



TE Part # 5120952-1
HS3 10 Row Header, sequenced, LF

TE Part # 6645401-1
Z-PACK HS3 HDR ASY 10R 100P Au /12PdNi

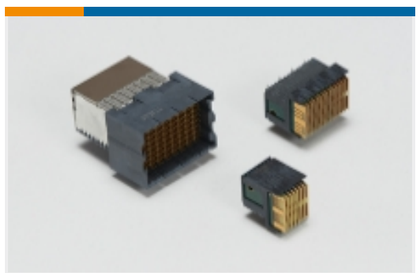
Also in the Series | Z-PACK HS3



Connector Caps & Covers(2)



Connector Hardware(1)



High Speed Backplane Connectors(39)

Customers Also Bought



TE Part # DT04-2P
REC, 2P, GRY, N



TE Part # W2S
Wedgelocks: DEUTSCH DT



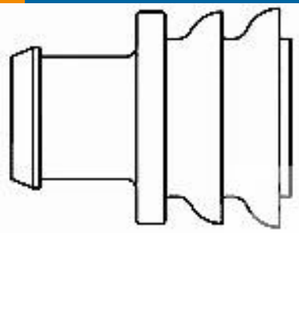
TE Part # 0460-202-16141
DEUTSCH Solid Contacts



TE Part # 282104-1
AMP SUPERSEAL 1.5MM, CONNECTOR HOUSING



TE Part # DT06-2S
PLG, 2P, GRY, N



TE Part # 281934-2
SINGLE WIRE SEAL



TE Part # 114017-ZZ
SEALING PLUG, SIZE 12/16, WHT

Documents

Product Drawings

ZP HS3 DB 10R REC 100P CT PD

English

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_5120790-1_O1.2d_dxf.zip

English

Customer View Model

ENG_CVM_5120790-1_O1.3d_igs.zip

English

Customer View Model

ENG_CVM_5120790-1_O1.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditionsof use.

Datasheets & Catalog Pages

High Speed Backplane Connectors catalog - Z-PACK HS3 Connector

English

High Speed Backplane Interconnect Solutions Brochure 1654263-1

English

Product Specifications

Application Specification

English