

5120786-1 ✓ ACTIVE

Z-PACK | Z-PACK HS3

TE Internal #: 5120786-1

High Speed Backplane Connectors, Board-to-Board, 60 Position,
Mating Alignment, Polarization Mating Alignment Type, 6 Row, 10
Column, Z-PACK HS3

[View on TE.com >](#)



Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



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

Number of Positions: **60**

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

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Features

Product Type Features

Backplane Module Type	Center
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 Positions	60
Number of Rows	6
Number of Columns	10
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	3
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Body Features

Shield Material	Phosphor Bronze
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Contact Features

Contact Type	Receptacle
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Contact Mating Area Plating Material Thickness	.5 μm [19.68 μin]
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Contact Mating Area Plating Material	Tin
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PCB Contact Termination Area Plating Material Finish	Matte
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Contact Shape & Form	Dual Beam
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Contact Underplating Material	Nickel
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PCB Contact Termination Area Plating Material	Tin
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Contact Base Material	Copper Alloy
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Contact Current Rating (Max)	1.15 A
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Termination Features

Termination Post & Tail Length	2.1 mm[.055 in][.083 in]
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Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

Mating Retention	Without
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Guide Hardware	Without
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PCB Mount Retention	With
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PCB Mount Retention Type	Action/Compliant Tail
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Mating Alignment	With
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Mating Alignment Type	Polarization
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Connector Mounting Type	Board Mount
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Housing Features

Number of Shrouded Sides	0
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Housing Material	Polyester - GF
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Housing Color	Black
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Centerline (Pitch)	2.5 mm[.098 in]
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Dimensions



Connector Length	25.48 mm[1.003 in]
Connector Height	11.95 mm[.47 in]
Connector Width	14.1 mm[.555 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]
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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>](#)

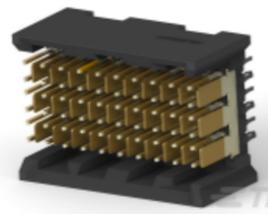
EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does 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 # 5120674-1
Z-PACK HS3 HDR ASSY 6R 60P



TE Part # 5120674-2
Z-PACK HS3 HDR ASSY 60P



TE Part # 5120679-1
Z-PACK HS3 HDR ASSY 6R 60P FT



TE Part # 5120679-2
Z-PACK HS3 HDR ASSY 6R 60P FT



TE Part # 5120737-1
HS3 B/P HDR ASY 6R 60 P LEV 1



TE Part # 5120758-1
Z-PACK HEADER ASSY 60P



TE Part # 5120841-1
Z-PACK HS3 HDR ASSY 60P



TE Part # 5120855-1
Z-PACK HS3 HDR ASSY 60P SL



TE Part # 5120994-1
Z-PACK HS3 HDR ASSY 6R 60P FT Sn

TE Part # 120994-1
Z-PACK HS3 HDR ASSY 6R 60P FT

TE Part # 120995-1
Z-PACK HS3 HDR ASSY 6R 60P FT

TE Part # 120996-1
Z-PACK HS3 HDR ASSY 6R 60P FT



TE Part # 5120682-1
Z-PACK HS3 SHRD ASSY 60P CNTR



TE Part # 5120771-1
Z-PACK HS3 HDR ASSY 60P FT SEQ

TE Part # 5120826-1
Z-PACK HS3 HDR ASSY 60P

TE Part # 5120995-1
Z-PACK HS3 HDR ASSY 6R 60P FT Sn

<p>TE Part # 5120996-1 Z-PACK HS3 HDR ASSY 6R 60P FT Sn</p>	<p>TE Part # 6645358-1 Z-PACK HS3 HDR ASSY 6R 60P FT Sn</p>	<p>TE Part # 6645402-1 Z-PACK HS3 HDR ASSY 6R 60P Au /12PdNi</p>
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Also in the Series | Z-PACK HS3

 <p>Header & Receptacle Guide Hardware (1)</p>	 <p>High Speed Backplane Connectors(39)</p>	 <p>PCB Connector Shrouds(2)</p>
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Documents

Product Drawings

ZP HS3 DB 06R REC 060P CT PD

English

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_5120786-1_O1.2d_dxf.zip

English

Customer View Model

ENG_CVM_5120786-1_O1.3d_igs.zip

English

Customer View Model

ENG_CVM_5120786-1_O1.3d_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



Product Environmental Compliance

TE Material Declaration

English