

2170245-1 ✓ ACTIVE

Z-PACK | Z-PACK HM-Zd

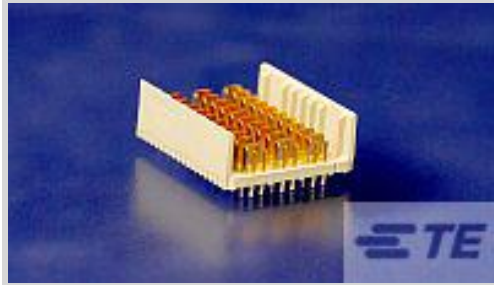
TE Internal #: 2170245-1

High Speed Backplane Connectors, 60 Position, Mating Alignment, Guide Lugs Mating Alignment Type, 6 Row, 10 Column, PCB Mount Header, Z-PACK HM-Zd

[View on TE.com >](#)



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



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

Number of Positions: **60**

Row-to-Row Spacing: **1.5 mm [ .059 in ]**

Mating Alignment: **With**

Mating Alignment Type: **Guide Lugs**

## Features

### Product Type Features

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

### Configuration Features

Pairs per Column	3
Number of Ground Positions	60
Card Slot Centerline	25.4 mm[1 in]
Number of Pairs	30
Number of Signal Positions	60
Number of Positions	60
Number of Rows	6
Number of Columns	10
PCB Mount Orientation	Vertical
Guide Location	Unguided

### Electrical Characteristics

Operating Voltage	250 VAC
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### Signal Characteristics



Data Rate	≤12 Gb/s
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### Body Features

Shield Material	Phosphor Bronze
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Primary Product Color	Gray
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### Contact Features

Contact Mating Area Length	5.3 mm[.21 in]
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Contact Layout	Matrix
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Contact Type	Pin
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Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
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Contact Mating Area Plating Material	Gold
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Contact Base Material	Phosphor Bronze
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Contact Current Rating (Max)	.7 A
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### Termination Features

Termination Post & Tail Length	1.55 mm[.06 in]
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Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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### Mechanical Attachment

Mating Alignment	With
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Mating Alignment Type	Guide Lugs
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Connector Mounting Type	Board Mount
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### Housing Features

Housing Material	Polyester - GF
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Centerline (Pitch)	2.5 mm[.098 in]
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### Dimensions

Connector Length	24.9 mm[.98 in]
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Connector Height	13.4 mm[.527 in]
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Connector Width	18.85 mm[.742 in]
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Row-to-Row Spacing	1.5 mm[.059 in]
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### 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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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

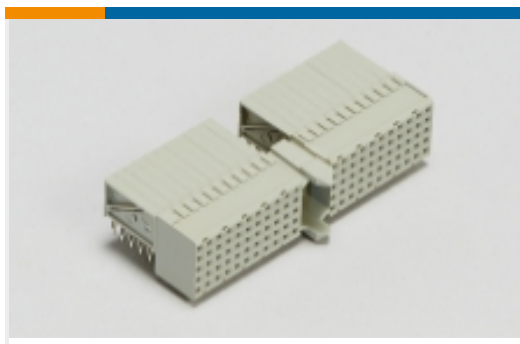
Product Compliance Disclaimer

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>

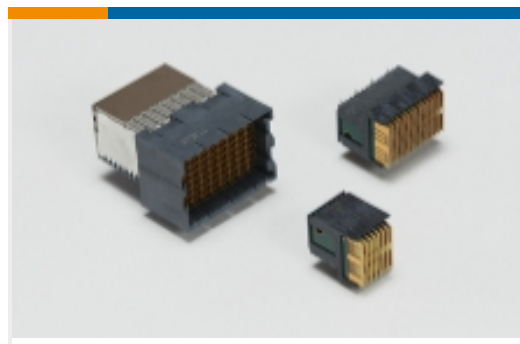
**Compatible Parts**



**Also in the Series | Z-PACK HM-Zd**



Hard Metric Backplane Connectors(1)



High Speed Backplane Connectors(46)



Insertion & Extraction Tools(2)

## Customers Also Bought



TE Part #5352152-1  
Z-PACK/B22 RAF 110P



TE Part #3-5353652-6  
.5FHP08H,440,B,GIG,08/Sn,HT,NSYes



TE Part #1-1469373-1  
ATCA GUIDE MODULE RA FEMALE



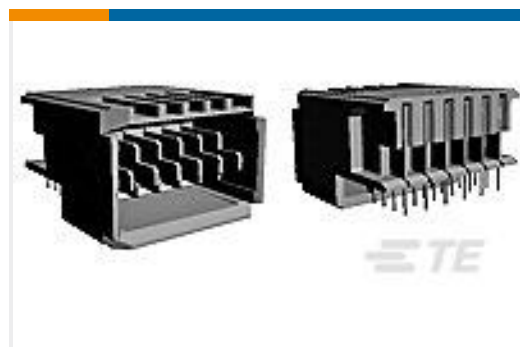
TE Part #120953-4  
UPM EXPANDED RCPT ASSEMBLY



TE Part #2170330-1  
HMZD+,4PAIRS,10COLS,VERTICAL,ASSEMBLY



TE Part #1734261-6  
1.25 WTB, HDR, SMT, RA, 6P



TE Part #120957-1  
UPM EXPANDED PIN ASSEMBLY



TE Part #CONSMA002-L  
SMA Jack 50 Ohm PCB Through Hole



TE Part #2309976-3  
ZSFP+ 1X4 CAGE ASSEMBLY, PRESSFIT, HS&LP



TE Part #1926171-1  
CONN,PIN,75Amp MIDDLE DWR

## Documents

### Product Drawings

[HMZD+,3PAIRS,10COLS,VERTICAL,ASSEMBLY](#)

English

### CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_2170245-1\\_A.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_2170245-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2170245-1\\_A.3d\\_stp.zip](#)

English

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**Product Specifications**

[Application Specification](#)

English