

1469025-1 ✓ ACTIVE

Z-PACK | Z-PACK HM-Zd

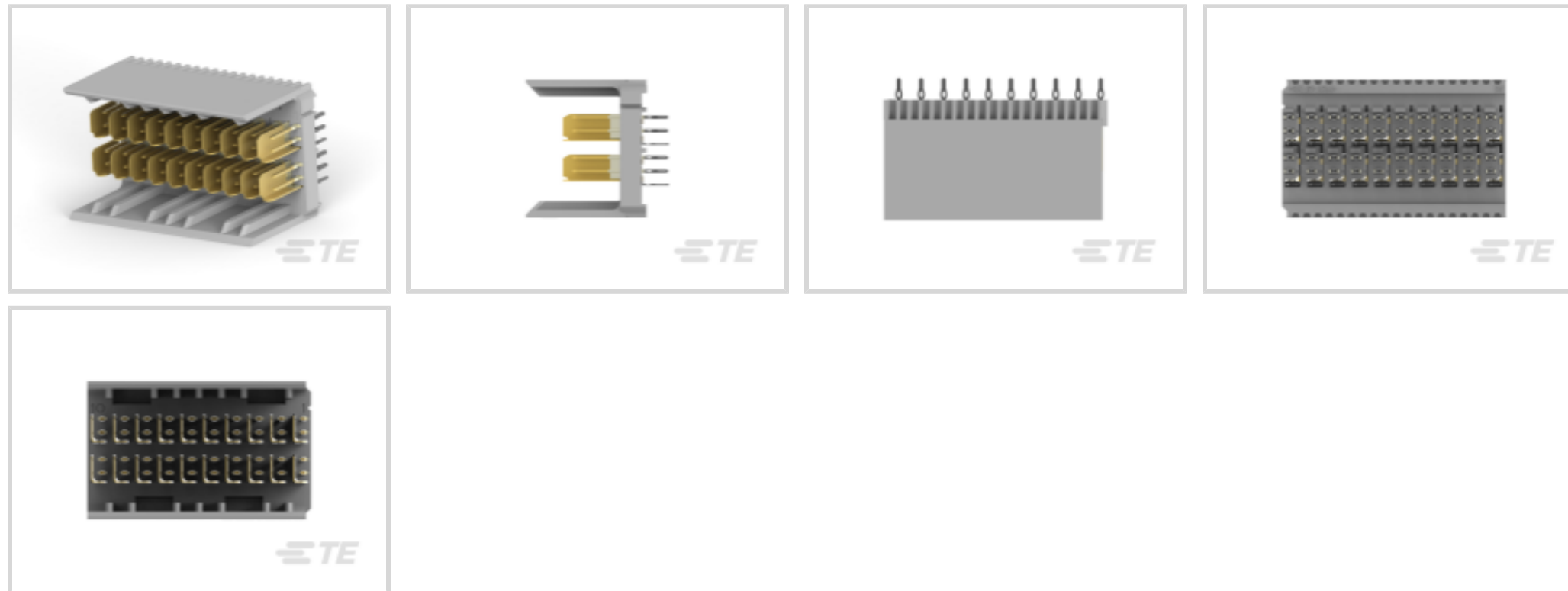
TE Internal #: 1469025-1

40 Position High Speed Backplane Connector, 4 Row, 10 Column,  
PCB Mount Header, Vertical, Partially Shrouded, Z-PACK HM-Zd

[View on TE.com >](#)



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



Number of Positions: 40

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

Mating Alignment: **With**

Mating Alignment Type: **Guide Lugs**

Number of Rows: 4

### Features

#### Signal Characteristics

Data Rate	≤12 Gb/s
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#### Electrical Characteristics

Operating Voltage	250 VAC
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#### Industry Standards

UL Flammability Rating	UL 94V-0
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#### Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	2.5 mm [.098 in]

#### Body Features

Shield Material	Phosphor Bronze
Primary Product Color	Gray

#### Packaging Features

Packaging Method	Tube
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#### Contact Features



Contact Mating Area Plating Material Thickness	.76 $\mu\text{m}$ [30 $\mu\text{in}$ ]
Contact Layout	Matrix
Contact Mating Area Plating Material	Gold
Contact Mating Area Length	5.3 mm[.21 in]
Contact Base Material	Phosphor Bronze
Contact Type	Pin
Contact Current Rating (Max)	.7 A

### Housing Features

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

### Product Type Features

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

### Dimensions

Connector Width	15.43 mm[.607 in]
Connector Height	13.4 mm[.527 in]
Connector Length	24.95 mm[.988 in]
Row-to-Row Spacing	1.5 mm[.059 in]

### Configuration Features

Number of Pairs	20
Number of Ground Positions	20
Number of Signal Positions	40
Pairs per Column	2
Card Slot Centerline	20.3 mm[.8 in]
Number of Positions	40
Number of Rows	4
Number of Columns	10
PCB Mount Orientation	Vertical
Guide Location	Unguided

### 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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### Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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### Operation/Application

Circuit Application	Signal
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### Other

EU RoHS Compliance	Not Compliant
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EU ELV Compliance	Compliant with Exemptions
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### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Not Compliant
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EU ELV Directive 2000/53/EC	Compliant with Exemptions
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China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	<p>Current ECHA Candidate List: JUNE 2024 (241)</p> <p>Candidate List Declared Against: JUNE 2024 (241)</p> <p>SVHC &gt; Threshold:</p> <p>Pb (13% in Component Part)</p>
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**Article Safe Usage Statements:**

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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Solder Process Capability	Not applicable for solder process capability
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#### 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 # 2065769-1  
Zd Plus 2 pair receptacle assy



TE Part # 1469028-1  
HM-ZD 2PR RECP 40P



TE Part # 1583234-1  
TL ASSY,HEADER REMOVAL, 2 PAIR



TE Part # 91348-1  
SEATING TOOL, HMZD HDR, 2 PAIR

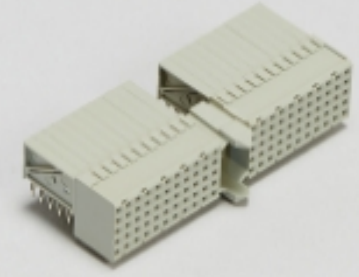


TE Part # 1583237-1  
TOOL,EXTRACTION,INDIVIDUAL PIN

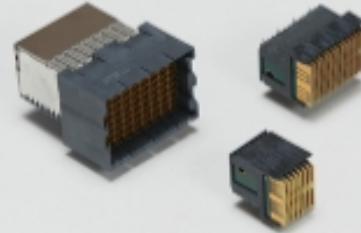


TE Part # 6469028-1  
HM-ZD 2PR RECP 40P


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



Hard Metric Backplane Connectors(1)

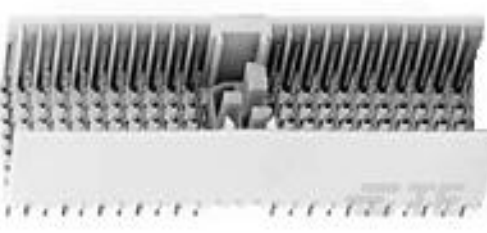


High Speed Backplane Connectors(46)



Insertion & Extraction Tools(1)

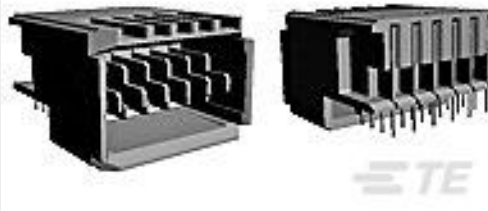
## Customers Also Bought



TE Part #100668-1  
Z-PACK M.ASSY.154P.



TE Part #5188578-1  
Z-PACK/A M HDR.154P



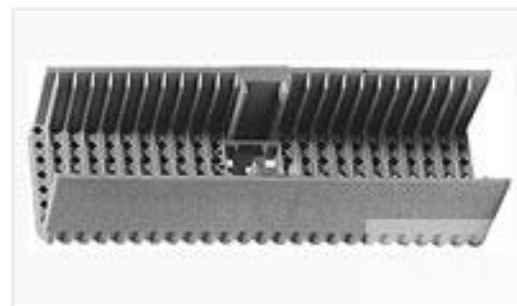
TE Part #120954-1  
TE UPM R/A Header 4P HC Power, LLLL



TE Part #5223957-3  
UPM GUIDE MODULE



TE Part #223982-1  
Stainless Steel Guide Pin M4x0.7



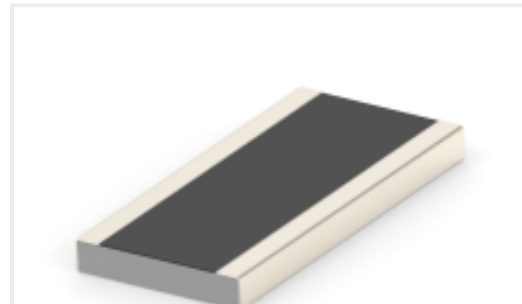
TE Part #646478-5  
2MM H.M., "A" SHROUD, 4.5MM



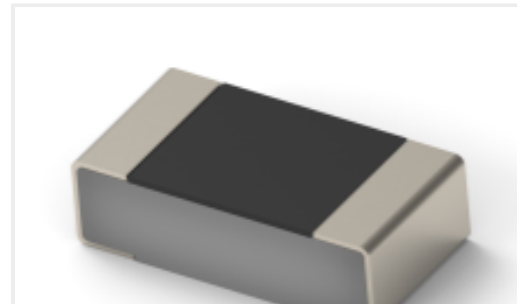
TE Part #2007637-5  
SFP+ assy 2x2 Spring Fingers 4 LP Sn



TE Part #120953-1  
TE UPM Ver Receptacle 4P HC Power



TE Part #2176550-1  
RLW73P A3 1% R010 600ppm 4k RL



TE Part #3-2176467-1  
TLRP 1206 1.0W R025 1% 100PPM 5K RL

## Documents

### Product Drawings

[HM-ZD 2PR HDR 40P 2.5MM](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1469025-1\\_E\\_c-1469025-1-e.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1469025-1\\_E\\_c-1469025-1-e.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1469025-1\\_E\\_c-1469025-1-e.3d\\_stp.zip](#)

English

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

### Product Specifications

[Application Specification](#)

English