



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

Product Type Features

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

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

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
Primary Product Color	Gray

Contact Features

Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Layout	Matrix
Contact Mating Area Plating Material	Gold (Au)
Contact Mating Area Length	3.8 mm[.15 in]
Contact Base Material	Phosphor Bronze
Contact Type	Pin
Contact Current Rating (Max)	.7 A

Termination Features

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

Mechanical Attachment

Mating Alignment	With
Mating Alignment Type	Guide Lugs
Connector Mounting Type	Board Mount

Housing Features

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

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]

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

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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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 91348-1
SEATING TOOL, HMZD HDR, 2 PAIR



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

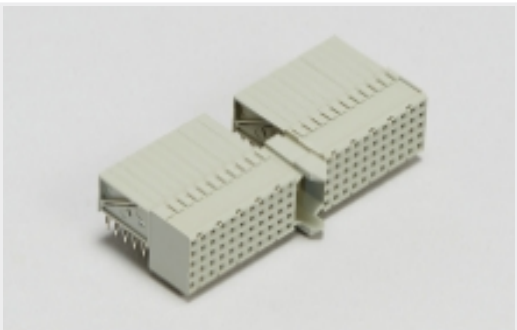


TE Part # 2065769-1
Zd Plus 2 pair receptacle assy

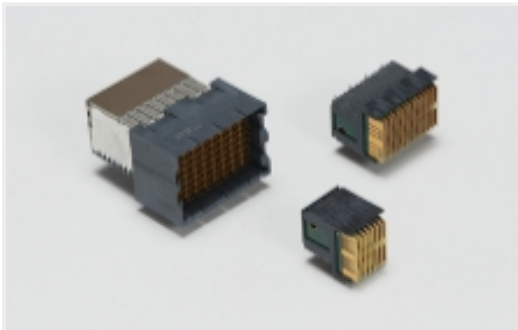


TE Part # 6469028-1
HM-ZD 2PR RECP 40P

Also in the Series | Z-PACK HM-Zd



[Hard Metric Backplane Connectors\(1\)](#)

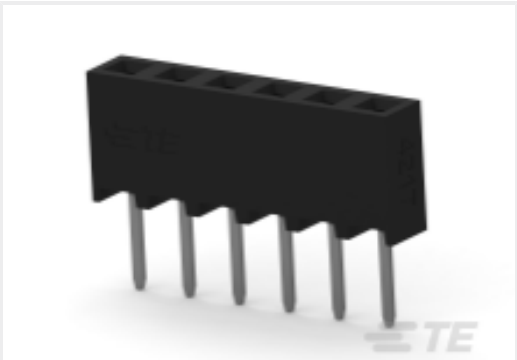


[High Speed Backplane Connectors\(46\)](#)



[Insertion & Extraction Tools\(1\)](#)

Customers Also Bought



TE Part #2314876-6
[6P,2MM,B-B,REC,SRVT,2.7,0.1AU,TB](#)

Documents

Product Drawings

[HM-ZD 2PR HDR 40P 3.7MM](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_6469025-2_A.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_6469025-2_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_6469025-2_A.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English