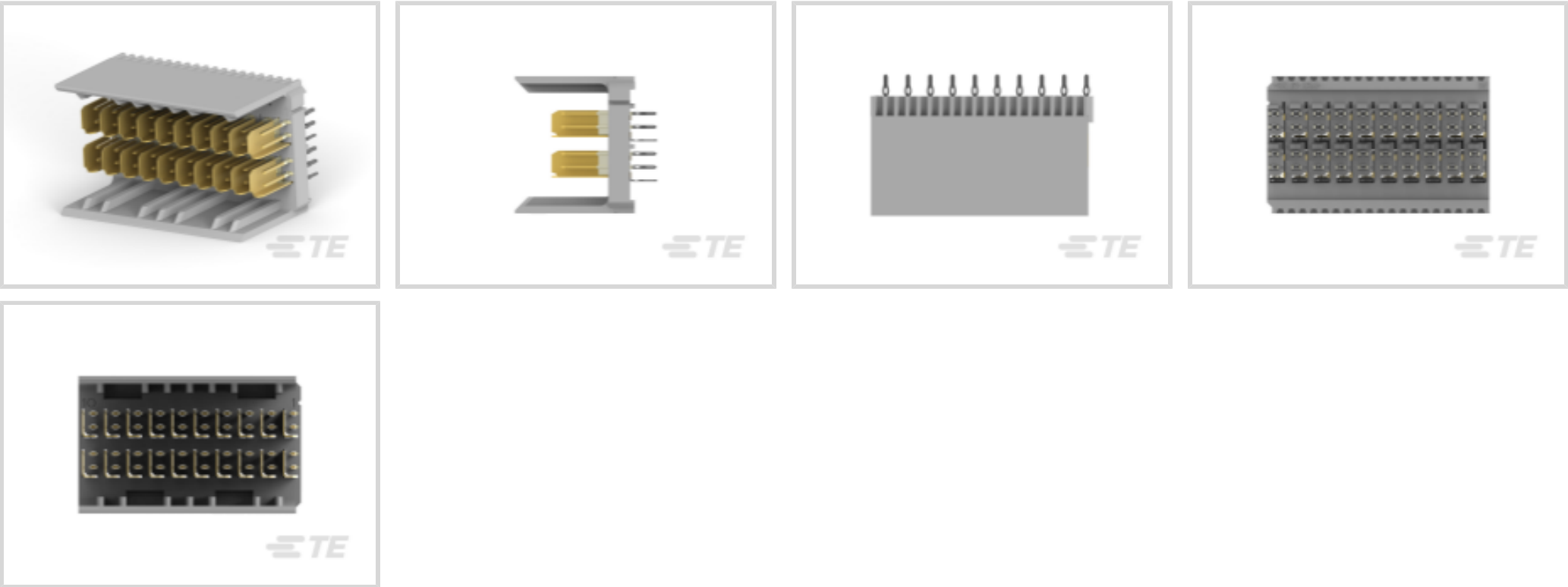




Connectors > PCB Connectors > Backplane Connectors > High Speed Connectors



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

Number of Positions: **40**

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
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Pairs per Column	2
Number of Ground Positions	20
Card Slot Centerline	20.3 mm[.8 in]
Number of Pairs	20
Number of Signal Positions	40
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
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Contact Features

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

Termination Features

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

Mechanical Attachment

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

Housing Features

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

Dimensions

Connector Length	24.95 mm[.988 in]
Connector Height	13.4 mm[.527 in]
Connector Width	15.43 mm[.607 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

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	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	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) SVHC > Threshold: Pb (13% in Component Part) 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.
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 # 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

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

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

TE Part # 1583255-1
TOOL,INSERTION,INDIVIDUAL PIN

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

Also in the Series | Z-PACK HM-Zd

Hard Metric Backplane Connectors(1)

High Speed Backplane Connectors(46)

Insertion & Extraction Tools(2)

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

Product Environmental Compliance

MD_1469025-1_11202014539_dmtec

English

MD_1469025-1_11202014539_dmtec

English