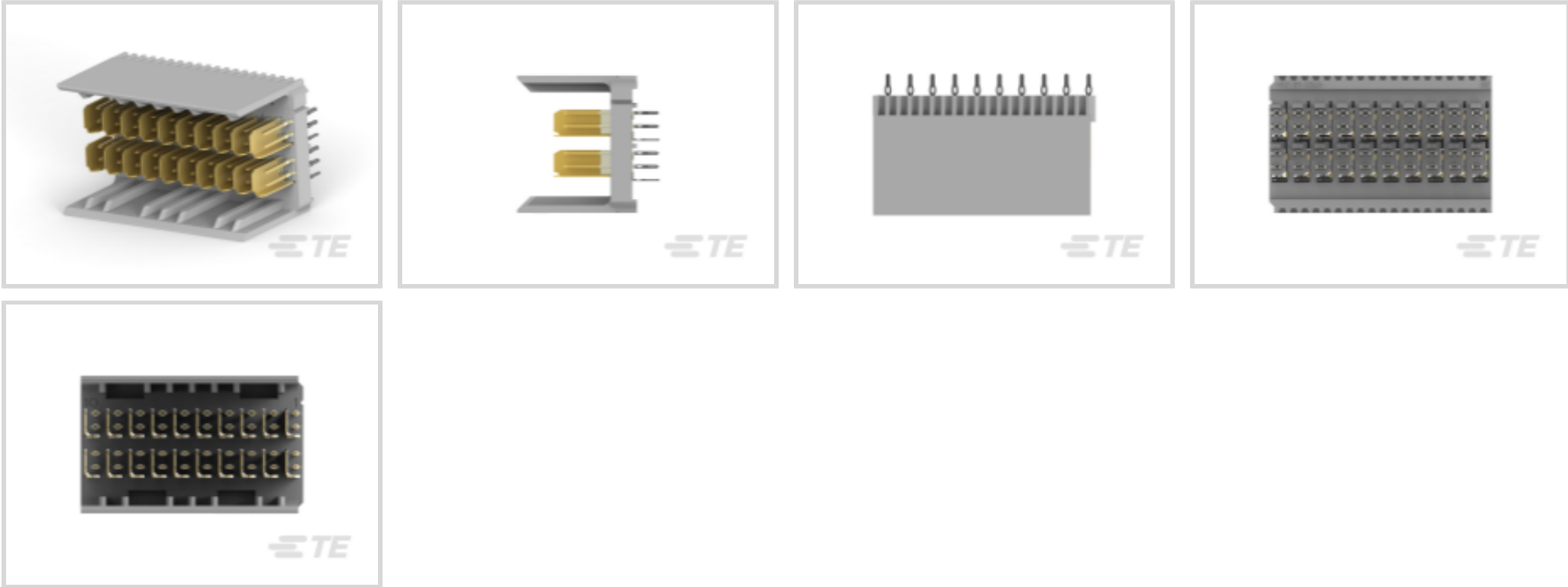




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



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	5.3 mm[.21 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

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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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (13% in 4690948374) <b>Article Safe Usage Statements:</b> 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 # 1583234-1  
TL ASSY,HEADER REMOVAL, 2 PAIR

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 # 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 #2323863-3  
V67.3 PLUG-IN C MODULE, 10 POS, AL

TE Part #1757640-1  
SMPM MALE, PCB EDGE MOUNT, FULL DETENT

TE Part #1410968-4  
MULTIGIG RT2 7RW RTM DC DF CT

TE Part #1-1469492-8  
MULTIGIG RT 9MM GUIDE/ESD 315 DEG

TE Part #2102771-2  
Plug Assy, R Angle, 7Row, Cnt, MG, RUG

TE Part #2000713-1  
RA Keyed Guide Mod, Vita 46, Machined

TE Part #1410326-3  
MULTIGIG RT T2 7RW DC DF CT

TE Part #2102061-2  
Mezalok, Socket, 114 p, 10 mm, 50 Au, LF



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