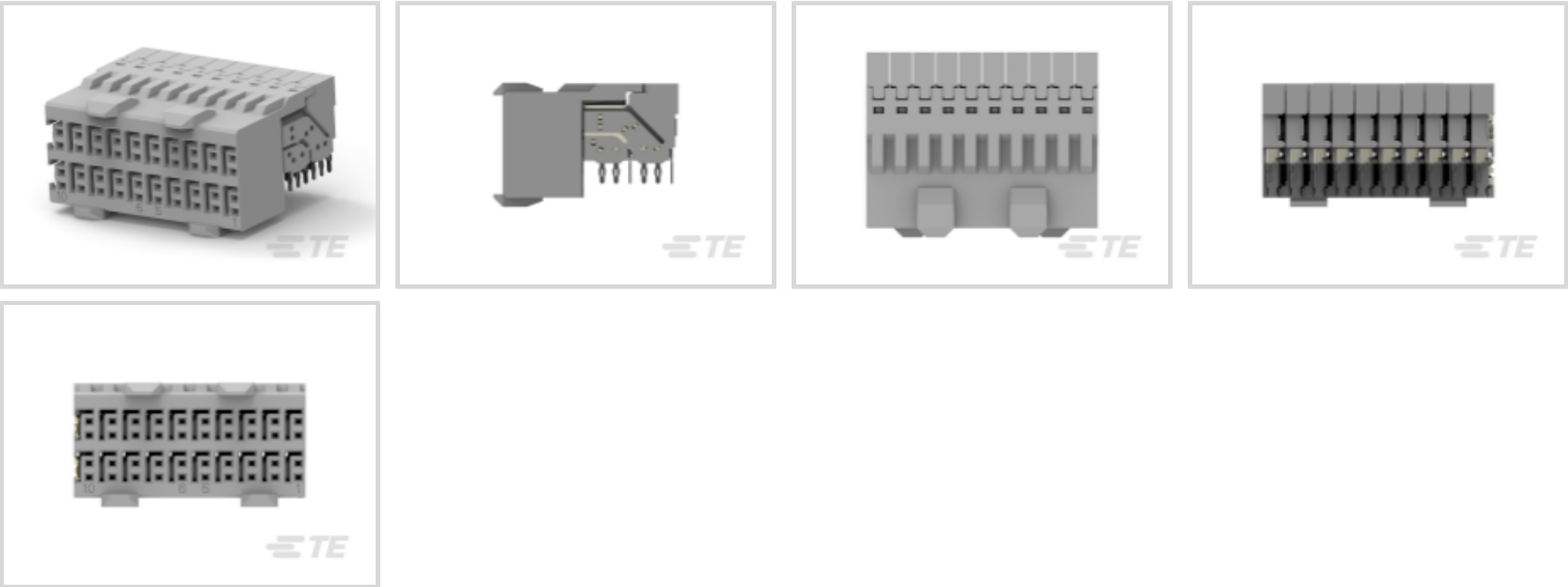




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Connector System: **Board-to-Board**
Number of Positions: **40**
Row-to-Row Spacing: **1.5 mm [.059 in]**
Mating Alignment: **With**
Mating Alignment Type: **Polarization**

Features

Product Type Features

Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Shroud Style	Fully Shrouded
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	Right Angle



Guide Location	Unguided
Electrical Characteristics	
Operating Voltage	250 VAC
Signal Characteristics	
Data Rate	≤12 Gb/s
Body Features	
Shield Material	Phosphor Bronze
Primary Product Color	Gray
Contact Features	
Contact Layout	Matrix
Contact Type	Receptacle
Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Contact Mating Area Plating Material	Gold
Contact Base Material	Copper Nickel Silicon
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	Polarization
Connector Mounting Type	Board Mount
Housing Features	
Housing Material	Polyester - GF
Centerline (Pitch)	2.5 mm[.098 in]
Dimensions	
Connector Length	24.95 mm[.988 in]
Connector Height	11.35 mm[.446 in]
Connector Width	18.9 mm[.744 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	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	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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 # 6469169-1
HMZD 2PR RA HDR 40P

TE Part # 6469076-1
HM-ZD 2PR HDR ASSY 1.8MM

TE Part # 6469025-1
HM-ZD 2PR HDR 40P 2.5MM

TE Part # 1469025-1
HM-ZD 2PR HDR 40P 2.5MM

TE Part # 6469025-2
HM-ZD 2PR HDR 40P 3.7MM

TE Part # 91350-1
SEATING TOOL, HMZD RCPT, 2 PAIR

TE Part # 6469076-2
HM-ZD 2PR HDR ASSY 1.8MM

TE Part # 6469314-1
2 PAIR HM ZD HDR ASSY, SEQU, LF

TE Part # 1469205-1
HMZD 2PAIR, 25MM MODULE, 2.5MM

TE Part # 1469314-1
2 PAIR HM ZD HEADER ASSY, SEQU

TE Part # 1469734-1
HM-ZD 2PR HDR 40P SEQ, LF

TE Part # 6469054-1
HM-ZD 2PR HDR SELECT LOAD

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 #120943-1
UPM R/A REC HC 3P Power Connector

TE Part #1-5767007-0
MICT, 260PLUG, 114, ASSY, 025, REC

TE Part #2329397-1
RECEPTACLE HM-EZD+, 2PAIRS 10COLUMNS

TE Part #2381126-1
GUIDE PIN WITH POST KEY



TE Part #1-292286-1 UNIVERSAL POWER MODULE,3P,R/A HEADER	TE Part #1469648-1 HM-ZD 2PR HDR 40P QINGDAO PROD.	TE Part #2354315-1 SFP+ 1X1 CAGE ASSY, ST, HSK, WO KICK-OUT	TE Part #5796055-5 68 CHAMP R/A ASSY,LC
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Documents

Product Drawings

HM-ZD 2PR RECP 40P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6469028-1_E.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_6469028-1_E.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6469028-1_E.3d_stp.zip

English

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

Datasheets & Catalog Pages

High Speed Backplane Connectors catalog - Z-PACK HM-Zd Connector

English

Product Specifications

Application Specification

English

Product Environmental Compliance

Product Compliance Document

English

Product Compliance Document

English

Agency Approvals

UL Report

English