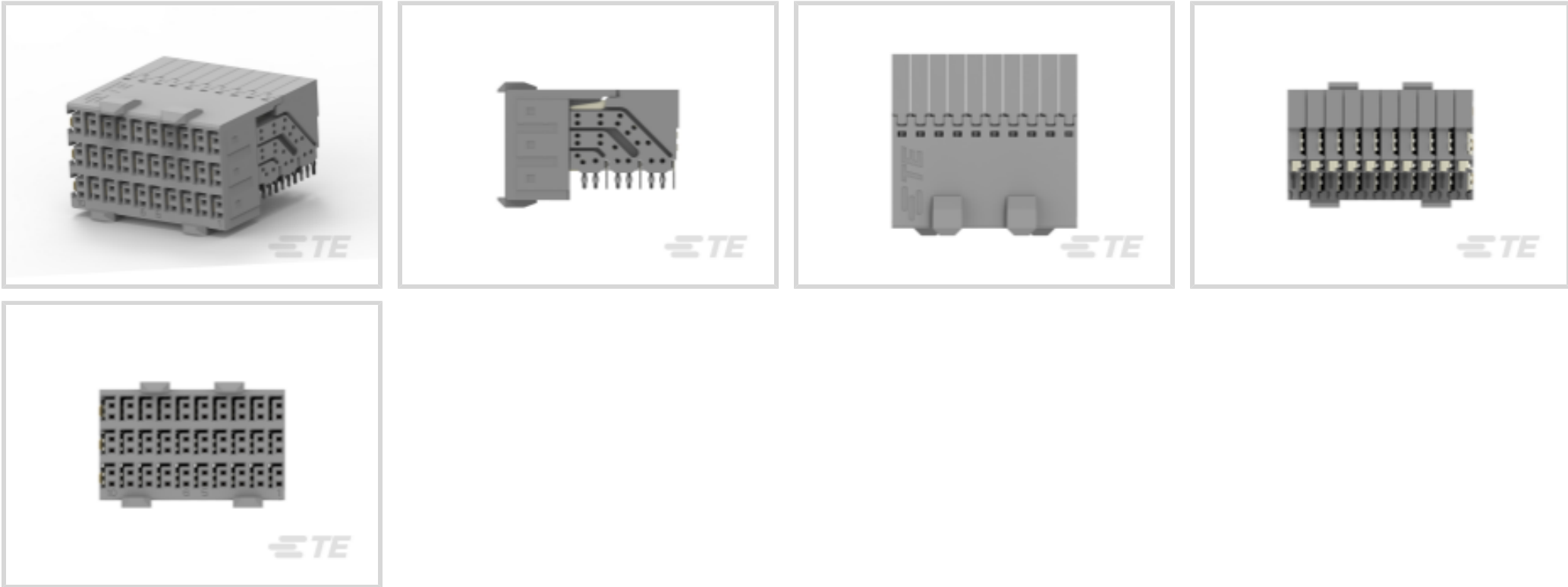




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Connector System: **Board-to-Board**
Number of Positions: **60**
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	3
Number of Ground Positions	30
Card Slot Centerline	20.3 mm[.8 in]
Number of Pairs	30
Number of Signal Positions	60
Number of Positions	60
Number of Rows	6
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	2.2 mm[.086 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	14.85 mm[.584 in]
Connector Width	23.4 mm[.921 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

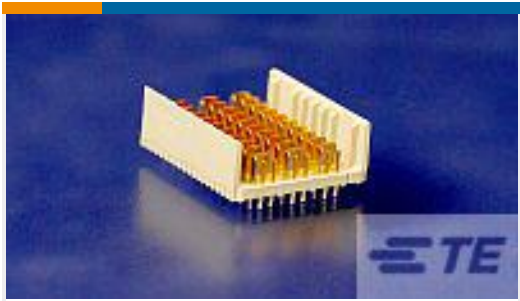
For compliance documentation, visit the product page on [TE.com](#)>

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>

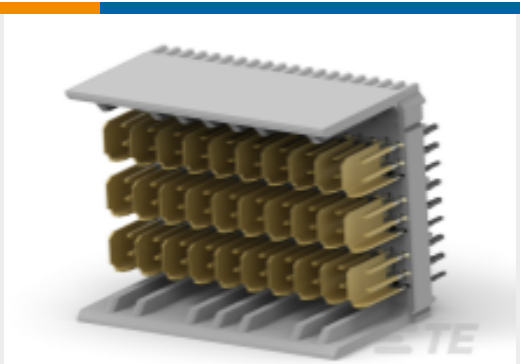
Compatible Parts



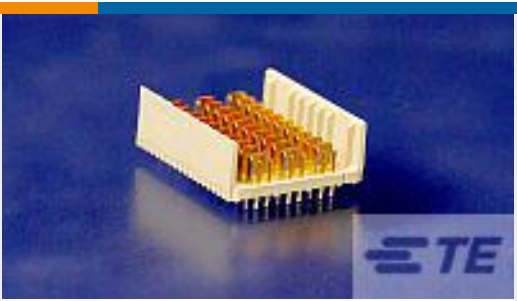
TE Part # 6469085-1
HMZD 3PAIR, HDR ASSY, 25MM MOD



TE Part # 6469183-1
HMZD 3PR RA HDR 60P ASSY LF



TE Part # 6469083-1
HMZD 3PAIR, HDR ASSY, 25MM MOD



TE Part # 6469083-2
HMZD 3PAIR, HDR ASSY, 25MM MOD



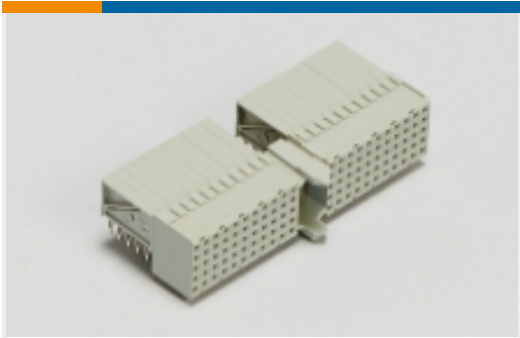
TE Part # 2274073-1
HM ZD 3 PR HEADER, SEQ, LF



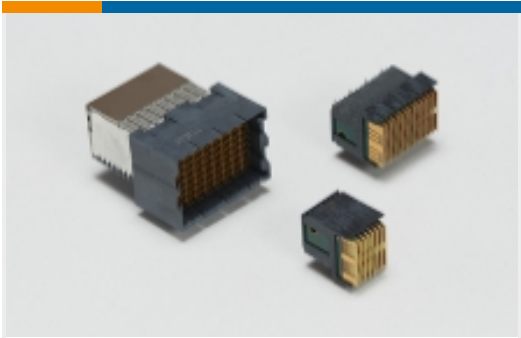
TE Part # 6469598-1
HM ZD 3 PR HEADER, SEQ, LF

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 #1888781-1
Cage Assy Behind Bezel QSFP



TE Part #6469083-1
HMZD 3PAIR, HDR ASSY, 25MM MOD



TE Part #4-1879208-1
CPF 0402 470R 0.1% 25PPM 1K RL



TE Part #1857994-1
Z-PACK/A F-HDR 110P, EON



TE Part #2336568-3
RECEPT ASSY, RA, 168 POS, SLIVER 2.0



TE Part #2274073-1
HM ZD 3 PR HEADER, SEQ, LF



TE Part #T4111002042-000
M12,MALE,STRAIGHT,A CODE,4P, PG9,SILVER



Documents

Product Drawings
HMZD 3PR, RECEPTACLE ASSEMBLY

English

CAD Files

3D PDF

3D

Customer View Model
ENG_CVM_CVM_6469081-1_E.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_6469081-1_E.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_6469081-1_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
MD_6469081-1_022320172229_dmtec

English

MD_6469081-1_022320172229_dmtec

English