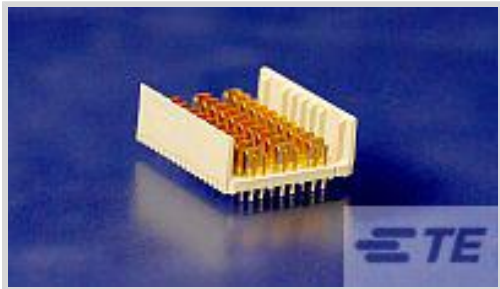




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Number of Positions: 60  
Row-to-Row Spacing: 1.5 mm [ .059 in ]  
Mating Alignment: With  
Mating Alignment Type: Guide Lugs  
Number of Rows: 6

Features

Product Type Features

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

Configuration Features

|                            |               |
|----------------------------|---------------|
| Pairs per Column           | 3             |
| Number of Ground Positions | 60            |
| Card Slot Centerline       | 25.4 mm[1 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      | Vertical      |
| 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 Mating Area Length                     | 5.3 mm[.21 in]  |
| Contact Layout                                 | Matrix          |
| 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              | 1.55 mm[.06 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  |
| Centerline (Pitch) | 2.5 mm[.098 in] |

Dimensions

|                    |                   |
|--------------------|-------------------|
| Connector Length   | 24.9 mm[.98 in]   |
| Connector Height   | 13.4 mm[.527 in]  |
| Connector Width    | 18.85 mm[.742 in] |
| Row-to-Row Spacing | 1.5 mm[.059 in]   |

Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 - 105 °C[-85 - 221 °F] |
|-----------------------------|----------------------------|

Operation/Application

|                     |        |
|---------------------|--------|
| Circuit Application | Signal |
|---------------------|--------|

Industry Standards



|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                  |      |
|------------------|------|
| Packaging Method | Tube |
|------------------|------|

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 2024 (240)<br>Candidate List Declared Against: JAN 2024 (240)<br>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

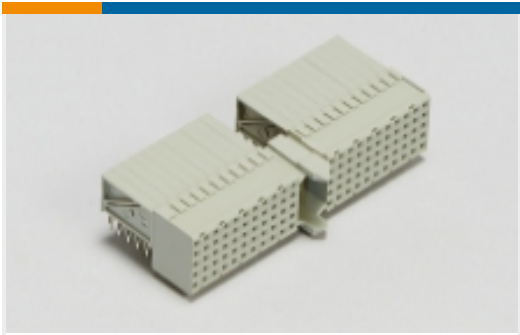


TE Part # 2065883-1  
Zd Plus, 3 pair receptacle ass

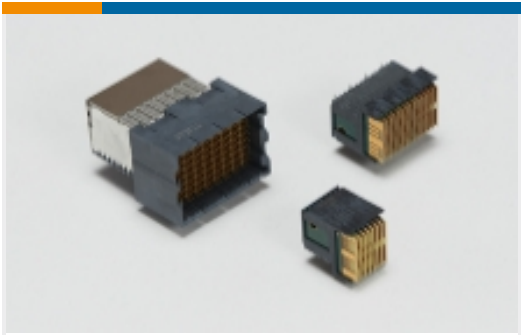


TE Part # 6469081-2  
HMZD 3PR, RECEPTACLE ASSEMBLY

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 # 2336682-1  
2MM HM FEMALE ASSY, COL8



TE Part # 2065883-1  
Zd Plus, 3 pair receptacle ass



TE Part # 120953-4  
UPM EXPANDED RCPT ASSEMBLY



TE Part # 2170330-1  
HMZD+,4PAIRS,10COLS,VERTICAL, ASSEMBLY



TE Part # 4-1879501-3  
CRGH2512 5% 56R 2W



TE Part # 120957-1  
UPM EXPANDED PIN ASSEMBLY



TE Part # 2-1437186-9  
FST-21A-15



TE Part # CONSMA002-L  
SMA Jack 50 Ohm PCB Through Hole



TE Part # 2309976-3  
ZSFP+ 1X4 CAGE ASSEMBLY, PRESSFIT, HS&LP



TE Part # 1926171-1  
CONN,PIN,75Amp MIDDLE DWR

Documents

Product Drawings

HMZD+,3PAIRS,10COLS,VERTICAL,ASSEMBLY

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2170245-1\_A.2d\_dxf.zip



English

Customer View Model

[ENG\\_CVM\\_CVM\\_2170245-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2170245-1\\_A.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