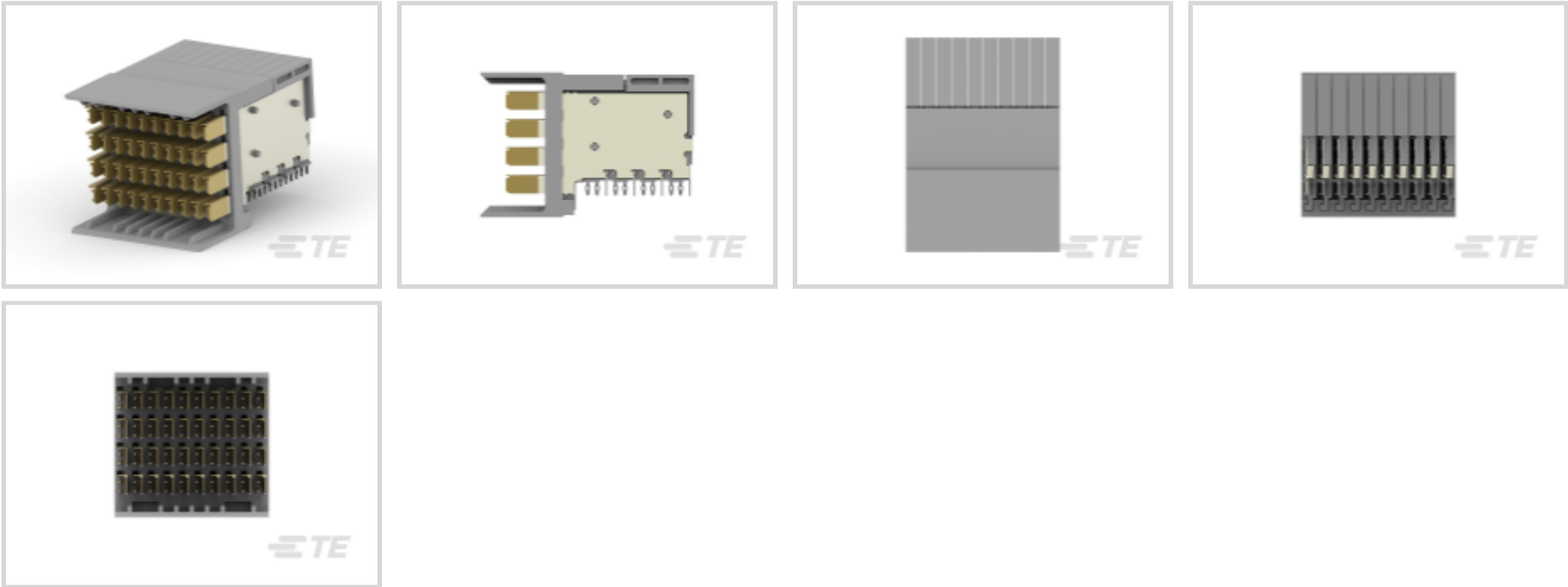




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Connector System: **Board-to-Board**
Number of Positions: **80**
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 | 4 |
| Number of Ground Positions | 40 |
| Card Slot Centerline | 25.4 mm[1 in] |
| Number of Pairs | 40 |
| Number of Signal Positions | 80 |
| Number of Positions | 80 |
| Number of Rows | 8 |
| 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 |
|-----------------|-----------------|

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 | 2.2 mm[.086 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 | 24.9 mm[.98 in] |
| Connector Height | 23.35 mm[.919 in] |
| Connector Width | 34.55 mm[1.36 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: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) 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 # 1469362-1
HM-ZD VERT RECPT ASSY 18MM



TE Part # 1469001-1
HM-ZD 4PR RECP 80P



TE Part # 6469001-1
HM-ZD 4PR RECP 80P



TE Part # 2065657-1
zd Plus, 4 pair, receptacle assy



TE Part # 91378-1
SEATING TL,RT ANG,4 PR RECPT

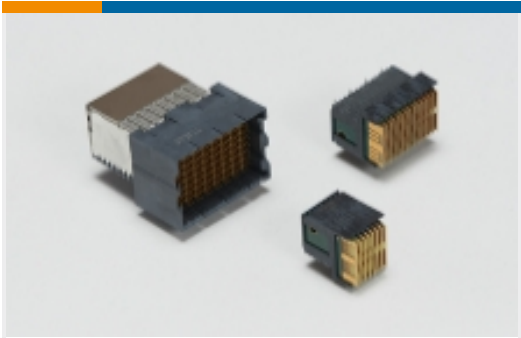


TE Part # 2227510-1
HM-ZD 4PR RECP 80P 50Au


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



TE Part #2300281-1
CAGE ASSEMBLY, 1X2, QSFP28, SPRING



TE Part #1565375-4
025 28POS CAP ASSY V TIN




TE Part #2007656-9
MICTOR RECEPT ASSY, 76 POS.,T&



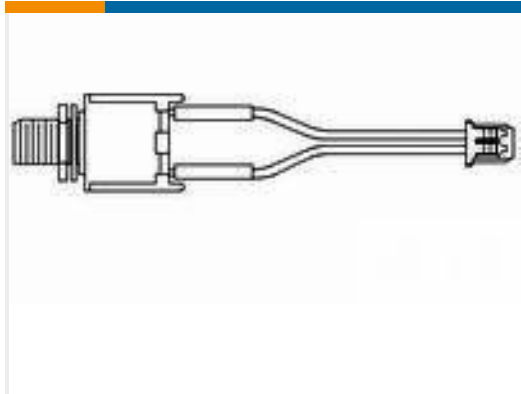
TE Part #5767042-3
MICT,738PLUG,114,ASSY,025,EXT



TE Part #5767094-4
MICT,RECPT,152,ASY,PDNI,EXTD



TE Part #5177578-1
CHAMP PLUG CABLE COVER KIT



TE Part #1559528-1
30-W2297F04A, CABLE ASSEMBLY



Documents

Product Drawings

HMZD 4PR RA HDR 80P ASSY LF

English

CAD Files

Customer View Model

ENG_CVM_CVM_6469048-1_B.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6469048-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6469048-1_B.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

The Complete Solution for AdvancedTCA

English

Solutions for AdvancedTCA, AdvancedTCA 300, MicroTCA, and AdvancedMC Standards Datasheet 3-1773445-8

English

Product Specifications

Application Specification

English

Product Environmental Compliance

MD_6469048-1_092620172335_dmtec

English

MD_6469048-1_092620172335_dmtec

English

Agency Approvals

UL Report

English