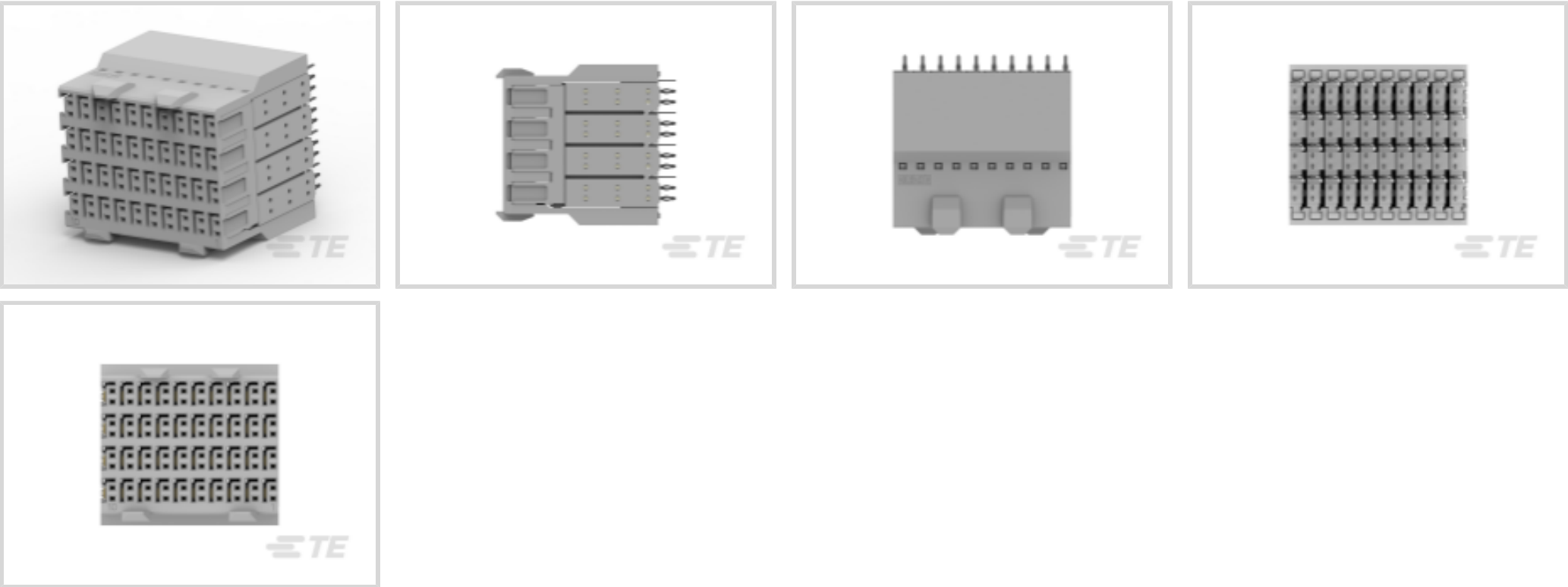




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Number of Positions: 80  
Row-to-Row Spacing: 1.5 mm [ .059 in ]  
Mating Alignment: **With**  
Mating Alignment Type: **Polarization**  
Number of Rows: 8

Features

Product Type Features

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

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      | 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                     | 2.2 mm[.087 in]          |
| 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                          | 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                          | Polarization             |
| 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                               | 14.97 mm[.589 in]        |
| Connector Width                                | 22.5 mm[.88 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](#)>

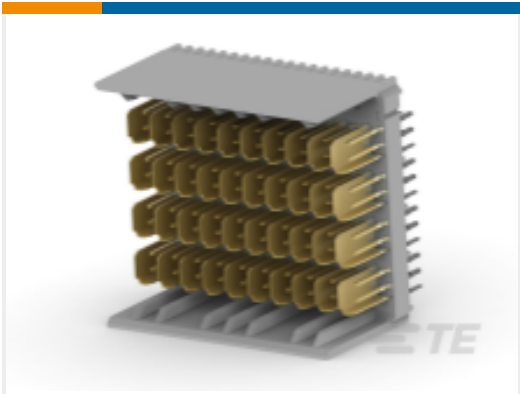
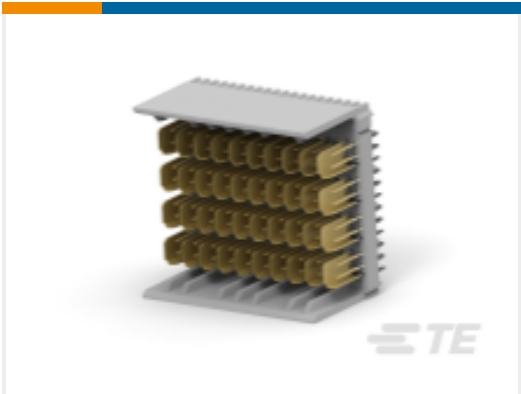
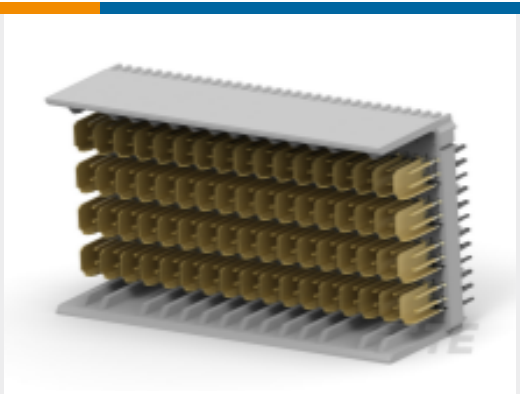
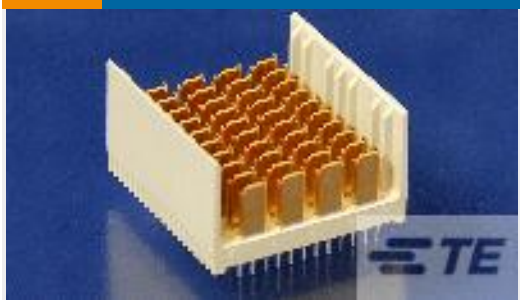
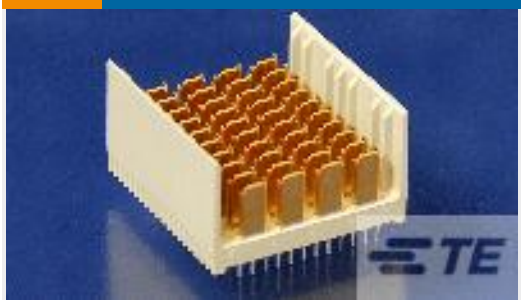
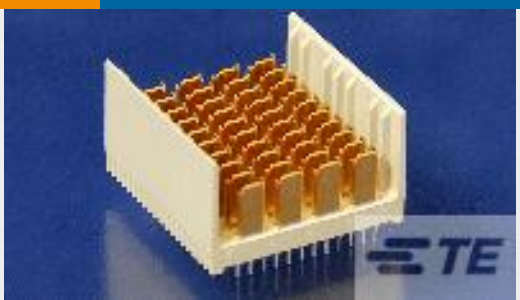
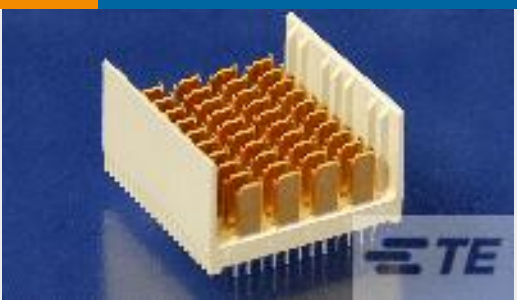
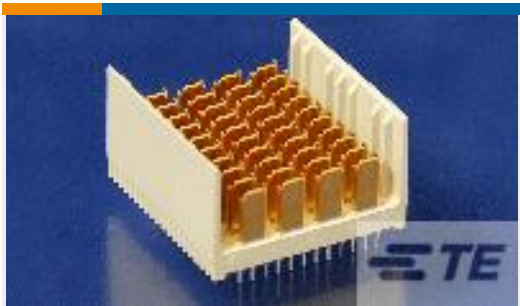
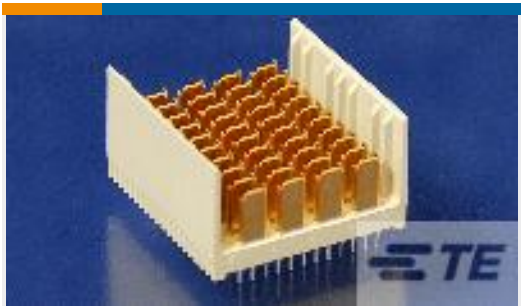
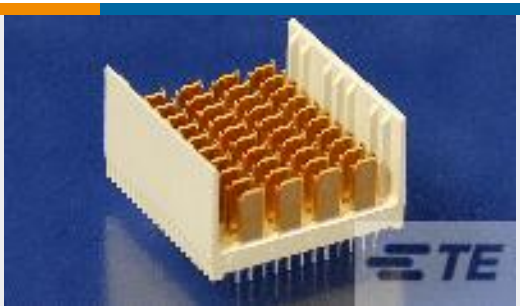
|                                               |                                                                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 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                               | 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>

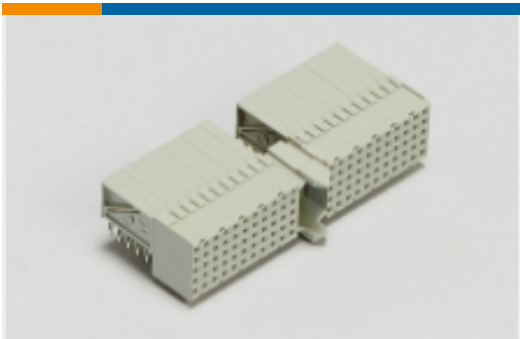
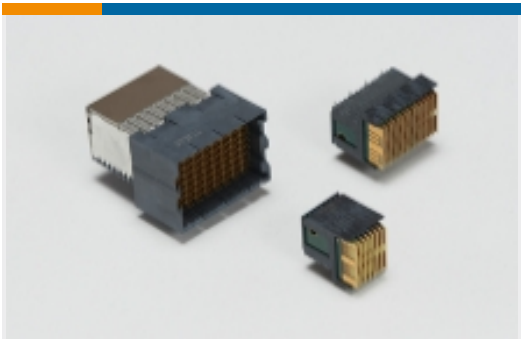
Compatible Parts



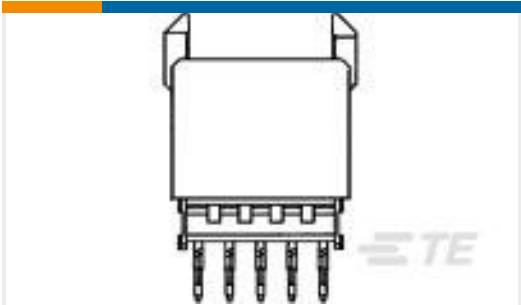
|                                                                                                                                                       |                                                                                                                                                      |                                                                                                                                                             |                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div>TE Part # 1469002-1<br/>HM-ZD 4PR HDR 80P 5.2MM</div>          |  <div>TE Part # 6469074-1<br/>HM-ZD 4PR HDR ASSY 1.8MM</div>       |  <div>TE Part # 6469002-1<br/>HM-ZD 4PR HDR 80P 5.2MM</div>              |  <div>TE Part # 6469048-1<br/>HMZD 4PR RA HDR 80P ASSY LF</div>    |
|  <div>TE Part # 1469074-1<br/>HM-ZD 4PR HDR ASSY 1.8MM</div>         |  <div>TE Part # 6469002-2<br/>HM-ZD 4PR HDR 80P 3.7MM</div>        |  <div>TE Part # 6469046-1<br/>HMZD HRD ASSY, 4 PAIR</div>                |  <div>TE Part # 6469056-1<br/>HMZD 4PR. HDR ASSY.,25MM MODUL</div> |
|  <div>TE Part # 6469079-1<br/>HMZD HDR ASSY 4 PR SELECT LOAD</div> |  <div>TE Part # 6469292-1<br/>HM ZD 4 PR HEADER, SEQUENCED</div> |  <div>TE Part # 6469320-1<br/>HM Zd 4 PR Pin Assy, Sequenced, LF</div> |                                                                                                                                                       |

Also in the Series

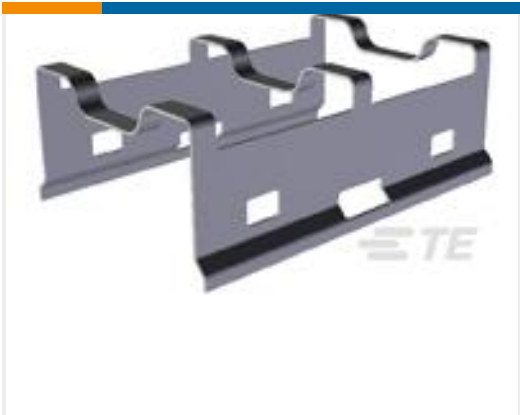
Z-PACK HM-Zd

|                                                                                                                                    |                                                                                                                                     |                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|  <div>Hard Metric Backplane Connectors(1)</div> |  <div>High Speed Backplane Connectors(46)</div> |  <div>Insertion &amp; Extraction Tools(1)</div> |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|

Customers Also Bought

|                                                                                                                                              |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div>TE Part #5106081-1<br/>2MM HM, HEADER, TYPE C</div> |  <div>TE Part #5106774-1<br/>Z-PACK/B25 VF 125P</div> |  <div>TE Part #1367645-6<br/>DWDM Kit Assy, Networking (13.</div> |  <div>TE Part #207121-9<br/>METRIMATE PIN HDR ASY,36P LF</div> |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|





TE Part #1489948-2  
XFP HEAT SINK CLIP, PLATED



TE Part #1676419-3  
RN 0805 6K98 0.1% 10PPM 5KRL



TE Part #1963850-2  
XFP. MSA HEATSINK 10mm TALL



TE Part #1489951-1  
XFP CAGE ASSEMBLY



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

Documents

Product Drawings

HM-ZD VERT RECPT ASSY 18MM

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1469362-1\_C\_c-1469362-1-c.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1469362-1\_C\_c-1469362-1-c.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1469362-1\_C\_c-1469362-1-c.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

Stacking Connectors Quick Reference Guide (English)

English

Product Specifications

Application Specification

English



Application Specification

English