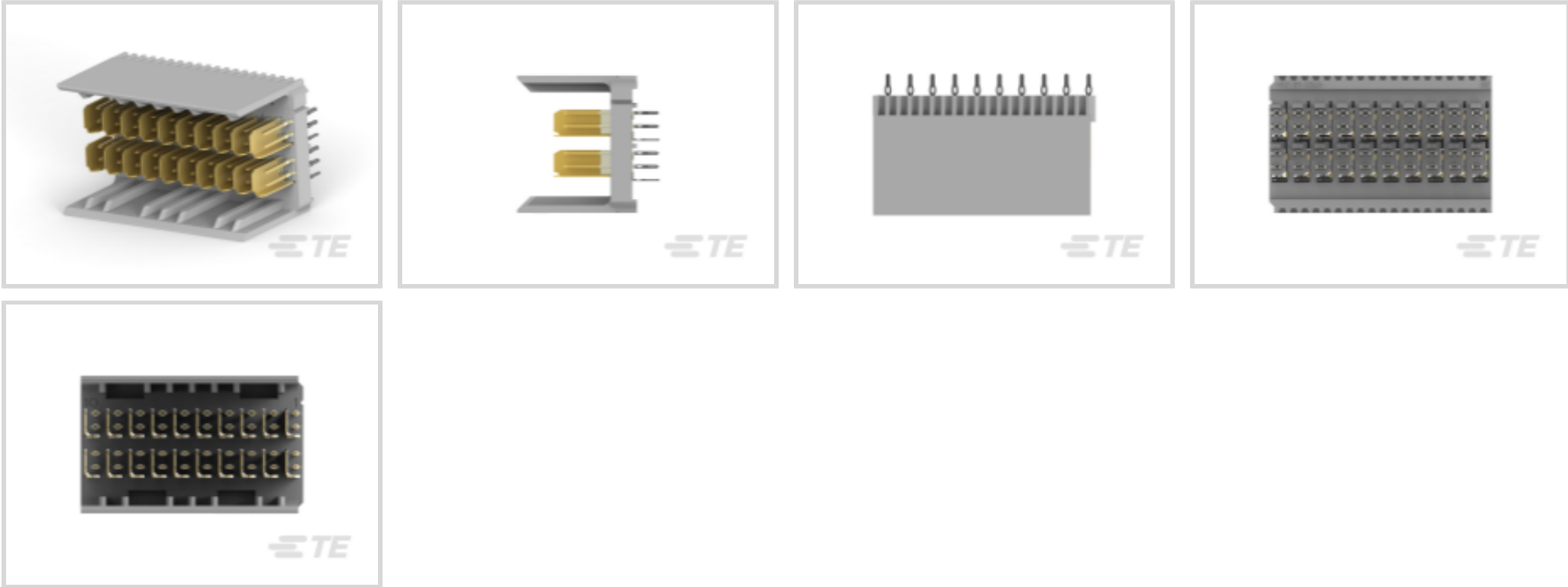




Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Number of Positions: 40
Row-to-Row Spacing: 1.5 mm [.059 in]
Mating Alignment: With
Mating Alignment Type: Guide Lugs
Number of Rows: 4

Features

Product Type Features

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

Configuration Features

| | |
|----------------------------|----------------|
| Number of Pairs | 20 |
| Number of Ground Positions | 20 |
| Number of Signal Positions | 40 |
| Pairs per Column | 2 |
| Card Slot Centerline | 20.3 mm[.8 in] |
| Number of Positions | 40 |
| Number of Rows | 4 |
| 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 Plating Material Thickness | .76 μm[30 μin] |
| Contact Layout | Matrix |
| Contact Mating Area Plating Material | Gold (Au) |
| Contact Mating Area Length | 5.3 mm[.21 in] |
| Contact Base Material | Phosphor Bronze |
| Contact Type | Pin |
| Contact Current Rating (Max) | .7 A |

Termination Features

| | |
|--------------------------------|--------------------------|
| Termination Method to PCB | Through Hole - Press-Fit |
| Termination Post & Tail Length | 2.5 mm[.098 in] |

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 Width | 15.43 mm[.607 in] |
| Connector Height | 13.4 mm[.527 in] |
| Connector Length | 24.95 mm[.988 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 | Not Compliant |
| EU ELV Directive 2000/53/EC | Compliant with Exemptions |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (13% in 4690948374) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location. |
| 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 # 2065769-1
Zd Plus 2 pair receptacle assy



TE Part # 1469028-1
HM-ZD 2PR RECP 40P



TE Part # 1583237-1
TOOL,EXTRACTION,INDIVIDUAL PIN



TE Part # 6469028-1
HM-ZD 2PR RECP 40P

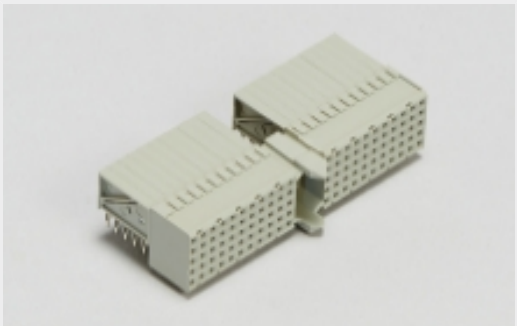


TE Part # 1583234-1
TL ASSY,HEADER REMOVAL, 2 PAIR

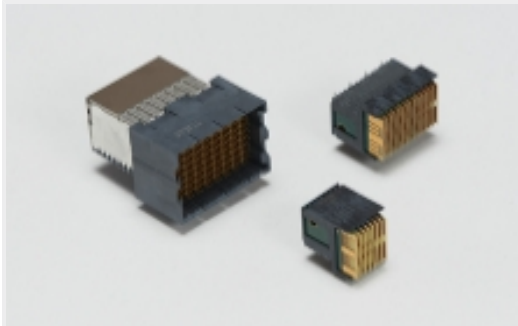


TE Part # 91348-1
SEATING TOOL, HMZD HDR, 2 PAIR


Also in the Series | Z-PACK HM-Zd



Hard Metric Backplane Connectors(1)



High Speed Backplane Connectors(46)

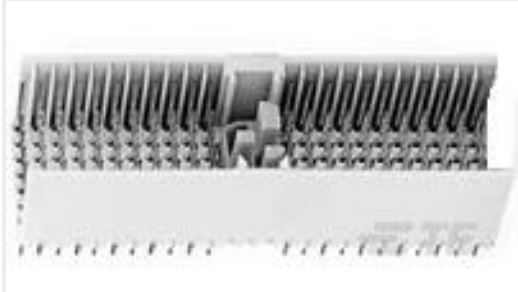


Insertion & Extraction Tools(1)

Customers Also Bought



TE Part #5223957-3
UPM GUIDE MODULE



TE Part #100668-1
Z-PACK M.ASSY.154P.



TE Part #2176550-1
RLW73P A3 1% R010 600ppm 4k RL



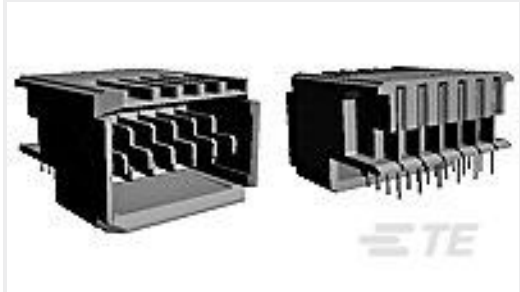
TE Part #5188578-1
Z-PACK/A M HDR.154P



TE Part #120953-1
TE UPM Ver Receptacle 4P HC Power



TE Part #5223955-2
TE UPM Ver Receptacle 3P STD Power



TE Part #120954-1
TE UPM R/A Header 4P HC Power, LLLL



TE Part #2007637-5
SFP+ assy 2x2 Spring Fingers 4 LP Sn



TE Part #3-2176467-1
TLRP 1206 1.0W R025 1% 100PPM 5K
RL



TE Part #646478-5
2MM H.M., "A" SHROUD, 4.5MM

Documents

Product Drawings

HM-ZD 2PR HDR 40P 2.5MM

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_1469025-1_E_c-1469025-1-e.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_1469025-1_E_c-1469025-1-e.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_1469025-1_E_c-1469025-1-e.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