

5106414-1 ✓ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5106414-1

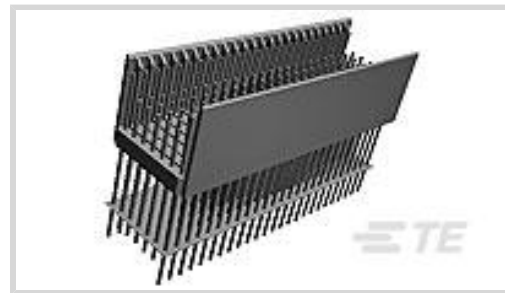
Hard Metric Backplane Connectors, PCB Mount Header,  $\leq 1$  Gb/s,  
25 Column, 5 Row, Mezzanine, Board-to-Board, 125 Position, Z-  
PACK 2mm HM

[View on TE.com >](#)



[Connectors >](#) [PCB Connectors >](#) [Backplane Connectors >](#) [Hard Metric Connectors >](#)

Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm



PCB Connector Assembly Type: **PCB Mount Header**

Data Rate:  $\leq 1$  Gb/s

Number of Columns: **25**

Number of Rows: **5**

Backplane Architecture: **Mezzanine**

[All Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm \(124\)](#)

## Features

### Product Type Features

|                                   |                       |
|-----------------------------------|-----------------------|
| Backplane Interface Type          | 2mm HM                |
| PCB Connector Assembly Type       | PCB Mount Header      |
| Connector System                  | Board-to-Board        |
| Sealable                          | No                    |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

|                            |              |
|----------------------------|--------------|
| Rows Loaded                | Fully Loaded |
| Number of Signal Positions | 174          |
| Number of Columns          | 25           |
| Number of Rows             | 5            |
| Backplane Architecture     | Mezzanine    |
| Number of Positions        | 125          |
| PCB Mount Orientation      | Vertical     |

### Signal Characteristics

|                   |               |
|-------------------|---------------|
| Crosstalk Version | Reduced       |
| Data Rate         | $\leq 1$ Gb/s |



### Contact Features

|  |                           |
|--|---------------------------|
| Contact Mating Area Length                     | 5.25 mm, 6.75 mm, 8.25 mm |
| Feedthrough Post Length                        | 3.7 mm                    |
| Contact Type                                   | Pin                       |
| Contact Underplating Material                  | Nickel                    |
| PCB Contact Termination Area Plating Material  | Tin                       |
| Contact Base Material                          | Phosphor Bronze           |
| CompactPCI Designation                         | None                      |
| Contact Mating Area Plating Material           | Gold                      |
| Contact Mating Area Plating Material Thickness | 1.27 μm[50 μin]           |
| Contact Current Rating (Max)                   | 1.5 A                     |

### Termination Features

|   |                          |
|---|--------------------------|
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |
|---|--------------------------|

### Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Front Mating Level      | Level 1     |
| Connector Mounting Type | Board Mount |

### Housing Features

|                    |                |
|--------------------|----------------|
| Housing Material   | Polyester - GF |
| Centerline (Pitch) | 2 mm[.078 in]  |
| Housing Color      | Gray           |

### Dimensions

|                         |       |
|-------------------------|-------|
| Backplane Module Length | 50 mm |
|-------------------------|-------|

### Usage Conditions

|                             |                            |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 125 °C[-67 – 257 °F] |
|-----------------------------|----------------------------|

### Operation/Application

|                     |                |
|---------------------|----------------|
| Shielded            | No             |
| Circuit Application | Power & Signal |

### Industry Standards

|                               |          |
|-------------------------------|----------|
| UL Flammability Rating        | UL 94V-0 |
| AdvancedTCA Specified Product | No       |

### Packaging Features

|                    |    |
|--------------------|----|
| Packaging Quantity | 10 |
|--------------------|----|



Packaging Method

Box & Tube, 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: JAN 2022 (223)  
 SVHC > Threshold:  
 Not Yet Reviewed

Halogen Content

Not Low Halogen - contains Br or Cl > 900 ppm.

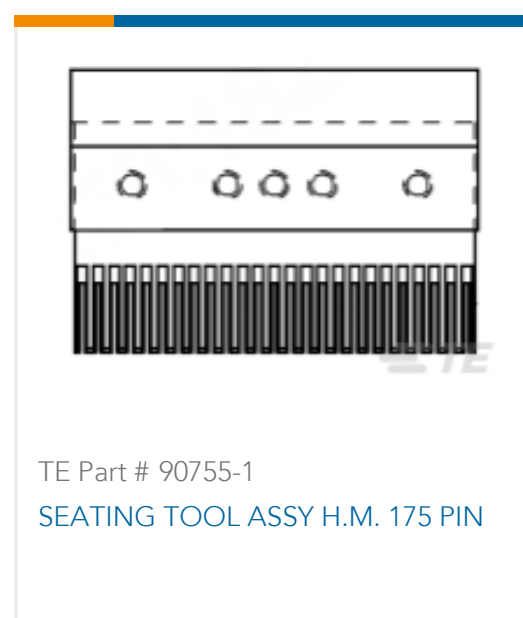
Solder Process Capability

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>

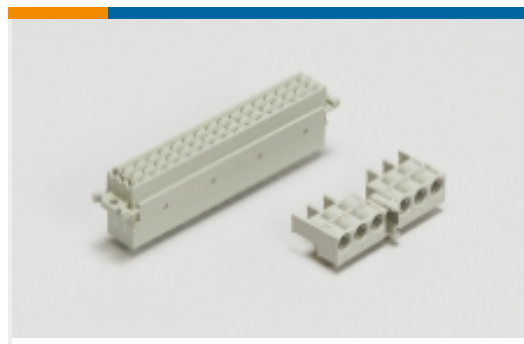
### Compatible Parts



Also in the Series | [Z-PACK 2mm HM](#)



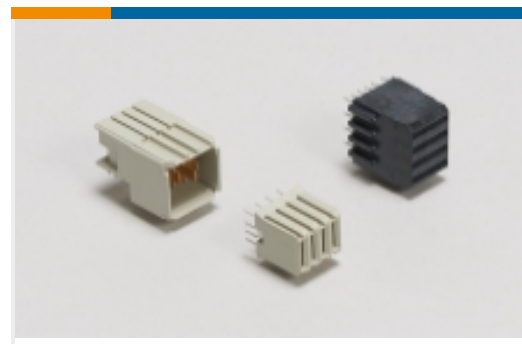
Backplane Coding Keys(60)



Backplane Connector Housings(4)



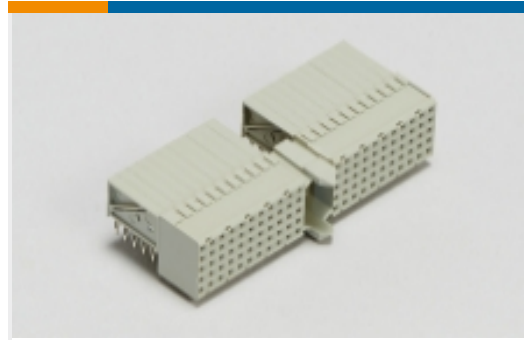
Backplane Guide Hardware(37)



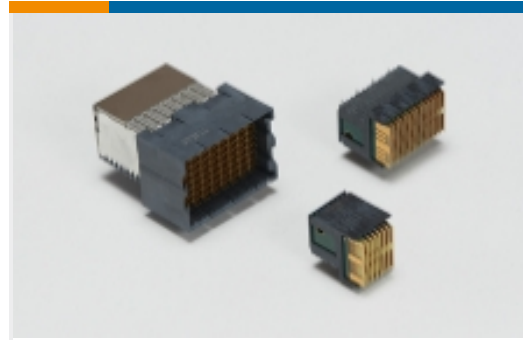
Backplane Power Connectors(6)



Board-to-Board Connector Contacts(2)



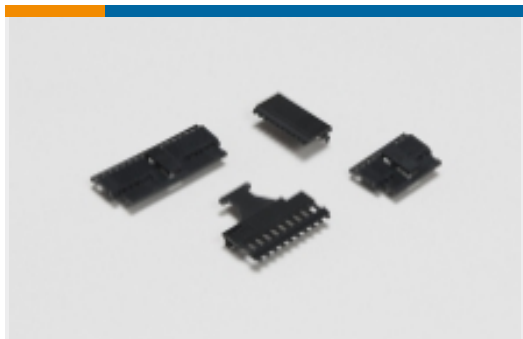
Hard Metric Backplane Connectors (269)



High Speed Backplane Connectors(1)



Insertion & Extraction Tools(2)



PCB Connector Covers(4)



PCB Connector Shrouds(39)



PCB Ferrules & Shields(19)



PCB Latches, Locks & Retainers(1)



Rectangular Power Connectors(87)

## Customers Also Bought



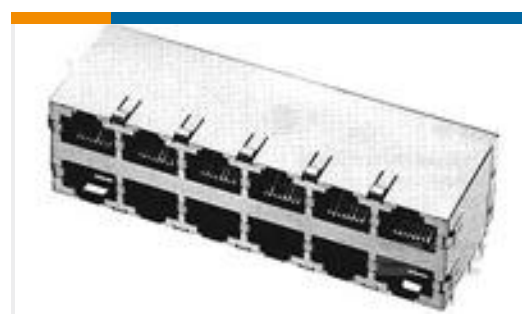
TE Part #84534-6  
1.25MM FFC POST PLATED V 6P



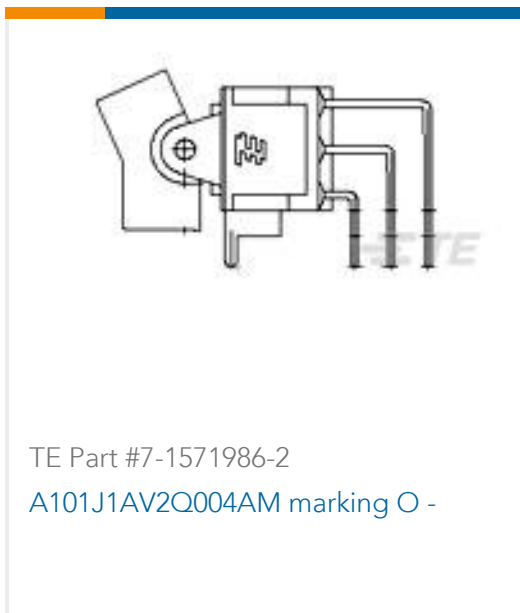
TE Part #3-1393789-9  
V23079A2011B301



TE Part #6-147723-9  
20 MODIV VRT SR SFMNT 30AU



TE Part #6368296-1  
ASSY,SHLD,2X8,STK MJ,WAVE PNL



## Documents

### Product Drawings

Z-PACK/A M-HDR 125P

English

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5106414-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5106414-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5106414-1\\_A.3d\\_stp.zip](#)

English

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### Product Specifications

Application Specification

English