

5106413-1 ✓ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5106413-1

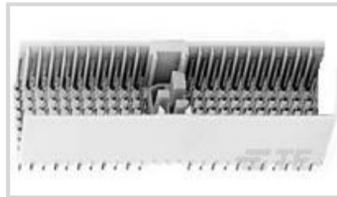
Hard Metric Backplane Connectors, PCB Mount Header,  $\leq 1$  Gb/s,  
25 Column, 5 Row, Mezzanine, Board-to-Board, 110 Position, Z-  
PACK 2mm HM

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[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 | 154          |
| Number of Columns          | 25           |
| Number of Rows             | 5            |
| Backplane Architecture     | Mezzanine    |
| Number of Positions        | 110          |
| 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              |
| Mating Alignment Type   | Multi-Purpose Center |
| 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   | 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)<br>Candidate List Declared Against: JUNE 2022 (224)<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



## 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 &amp; Extraction Tools(2)



PCB Connector Covers(4)



PCB Connector Shrouds(39)



PCB Ferrules &amp; Shields(19)



Rectangular Power Connectors(87)

## Documents

### Product Drawings

#### Z-PACK/A M-HDR 110P

English

### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_5106413-1\\_B.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_5106413-1\\_B.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_5106413-1\\_B.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

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**Product Environmental Compliance**

**TE Material Declaration**

English