# 5106509-1 ✔ ACTIVE

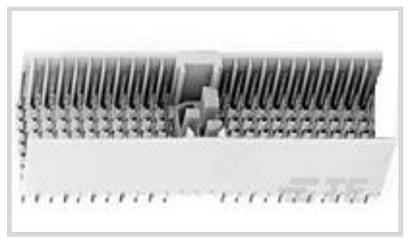
Z-PACK | Z-PACK 2mm HM

TE Internal #: 5106509-1

Hard Metric Backplane PCB Mount Header, ≤1 Gb/s, 25 Column, 7 Row, Mezzanine, 154 Position, 2 mm [.078 in] Centerline, Vertical, Gray, Z-PACK 2mm HM

View on TE.com >

Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors > Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm



PCB Connector Type: **PCB Mount Header**

Data Rate: **≤1 Gb/s**

Number of Columns: **25**

Number of Rows: **7**

Backplane Architecture: **Mezzanine**

All Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm (123)

## Features

### Product Type Features

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

### Configuration Features

| | |
|---|---|
| Rows Loaded | A, B, C, D, E, F, Z |
| Number of Signal Positions | 154 |
| Number of Columns | 25 |
| Number of Rows | 7 |
| Backplane Architecture | Mezzanine |
| Number of Positions | 154 |
| PCB Mount Orientation | Vertical |

### Signal Characteristics

| | |
|---|---|
| Crosstalk Version | Reduced |

| | |
|---|---|
| Data Rate | ≤1 Gb/s |

## Body Features

| | |
|---|---|
| Primary Product Color | Gray |

## Contact Features

| | |
|---|---|
| Contact Underplating Material | Nickel |
| Contact Mating Area Length | 10 mm |
| Contact Base Material | Phosphor Bronze |
| CompactPCI Designation | None |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Type | Pin |
| Contact Mating Area Plating Material | Nickel (Ni) |
| Contact Mating Area Plating Material Thickness | 1.27 µm[50 µin] |
| Contact Current Rating (Max) | 1.5 A |

## Termination Features

| | |
|---|---|
| Termination Method to PCB | Through Hole - Press-Fit |

## Mechanical Attachment

| | |
|---|---|
| Connector Mounting Type | Board Mount |
| Mating Alignment Type | Multi-Purpose Center |
| Front Mating Level | Level 1 |

## Housing Features

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

## Dimensions

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

## Usage Conditions

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

## Operation/Application

| | |
|---|---|
| Shielded | Yes |
| Circuit Application | Signal |

## Industry Standards

| | |
|---|---|
| UL Flammability Rating | UL 94V-0 |

## Packaging Features

| | |
|---|---|
| Packaging Quantity | 10 |
| Packaging Method | Tube |

## Product Compliance

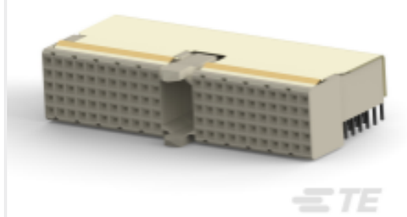
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| 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 2025 (250)<br>Candidate List Declared Against: JAN 2025 (247)<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

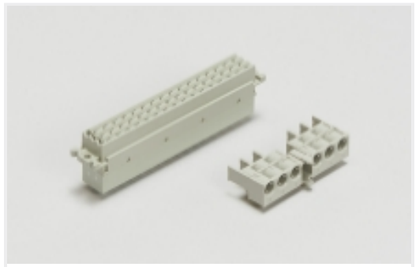
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

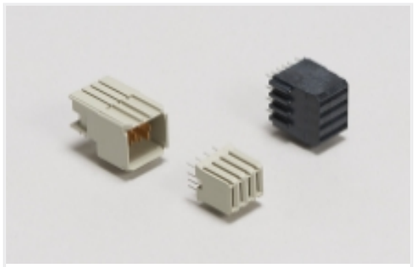


TE Part # 5352068-1
Z-PACK/A RAF 110P

## Also in the Series | Z-PACK 2mm HM



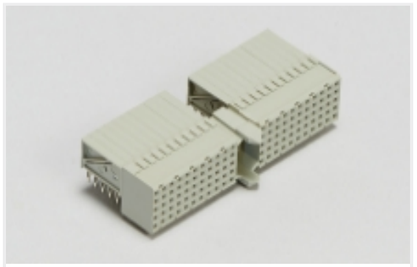
Backplane Connector Housings(4)



Backplane Power Connectors(1)



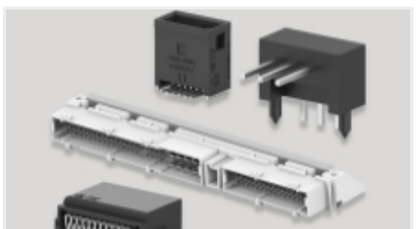
Connector Caps & Covers(62)



Hard Metric Backplane Connectors (264)



Insertion & Extraction Tools(2)



PCB Headers & Receptacles(46)



Power Contacts(1)



Rectangular Power Connectors(46)

## Customers Also Bought



TE Part #31428
TERMINAL,BUDG R 26-22 4



TE Part #223956-1
STV ERMZUB FUEHRUNGSBOLZEN J * M 1 * * *




TE Part #1622918-1
CRG0603 1% 330R



TE Part #5352068-1
Z-PACK/A RAF 110P

## Documents

### Product Drawings

2MMHM PIN HDR,TYPE A 154POS 7R

English

### CAD Files

Customer View Model

ENG_CVM_5106509-1_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_5106509-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_5106509-1_B.3d_stp.zip

English

3D PDF

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

## Product Specifications

## Application Specification

English