# 5646956-1 ✔ ACTIVE

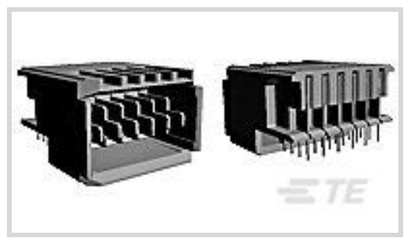
Z-PACK 2mm HM

TE Internal #: 5646956-1

PCB Mount Header, Right Angle, Board-to-Board, 6 Position, 3 mm [.118 in] Centerline, Fully Shrouded, Gold (Au), Z-PACK 2mm HM

View on TE.com >

Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**

Connector System: **Board-to-Board**

Number of Positions: **6**

Number of Rows: **1**

Centerline (Pitch): **3 mm [ .118 in ]**

## Features

### Product Type Features

| | |
|---|---|
| Connector Shape | Rectangular |
| PCB Connector Type | PCB Mount Header |
| Connector System | Board-to-Board |
| Header Type | Fully Shrouded |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |
| Connector Product Type | Connector Assembly |

### Configuration Features

| | |
|---|---|
| Number of Loaded Positions | 6 |
| Number of Positions | 6 |
| Number of Rows | 1 |
| PCB Mount Orientation | Right Angle |
| Number of Power Positions | 6 |

### Electrical Characteristics

| | |
|---|---|
| Operating Voltage | 250 VDC |

### Body Features

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

### Contact Features

| | |
|---|---|
| Contact Underplating Material | Nickel |
| Contact Underplating Material Thickness | 1.27 µm[50 µin] |
| PCB Contact Termination Area Plating Material Thickness | .5 – 1.25 µm[19.68 – 49.21 µin] |
| Contact Layout | Inline |
| Contact Base Material | Copper Alloy |
| Contact Mating Area Plating Material | Gold (Au) |
| Contact Type | Blade |
| Contact Current Rating (Max) | 10 A |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin] |

## Termination Features

| | |
|---|---|
| Termination Post & Tail Length | 3.22 mm[.126 in] |
| Termination Method to PCB | Through Hole - Press-Fit |

## Mechanical Attachment

| | |
|---|---|
| PCB Mount Alignment Type | Pegs |
| Connector Mounting Type | Board Mount |
| Mating Alignment | Without |
| PCB Mount Alignment | With |
| PCB Mount Retention | Without |

## Housing Features

| | |
|---|---|
| Centerline (Pitch) | 3 mm[.118 in] |
| Housing Material | Polyester |

## Dimensions

| | |
|---|---|
| Connector Width | 21 mm[.82 in] |
| Connector Height | 9.7 mm[.381 in] |
| Connector Length | 22.34 mm[.88 in] |
| PCB Thickness (Recommended) | 1.4 mm[.055 in] |

## Usage Conditions

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

## Operation/Application

| | |
|---|---|
| Circuit Application | Power |

## Industry Standards

| | |
|---|---|
| Compatible With Approved Standards Products | UL E28476 |
| Glow Wire Rating | Standard Part - Not Glow Wire |
| UL Flammability Rating | UL 94V-0 |

## Packaging Features

| | |
|---|---|
| Packaging Quantity | 27 |
| 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 | Out of Scope |
| China RoHS 2 Directive MIIT Order No 32, 2016 | 有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2025 (250)<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

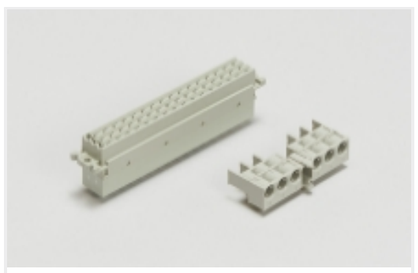
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

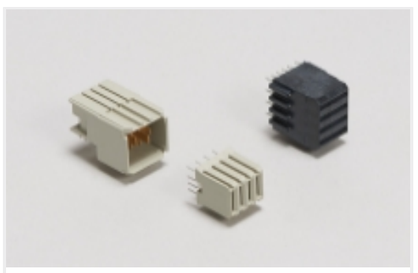


TE Part # 5223995-3
UPM EXPANDED RECEPTACLE ASSEMB

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



Backplane Connector Housings(4)



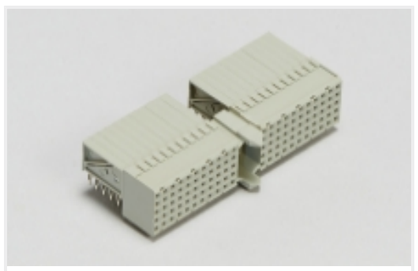
Backplane Power Connectors(1)



Connector Caps & Covers(62)



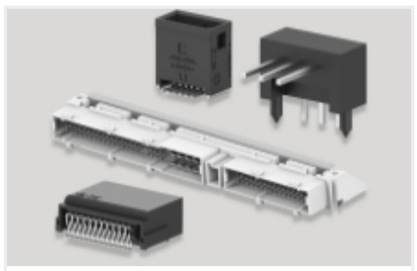
Connector Contacts(1)



Hard Metric Backplane Connectors (274)



Insertion & Extraction Tools(2)

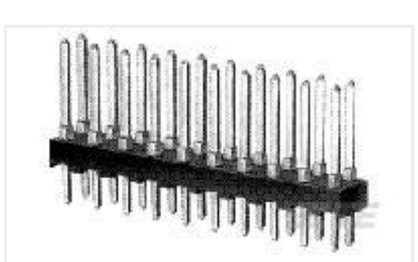


PCB Headers & Receptacles(46)

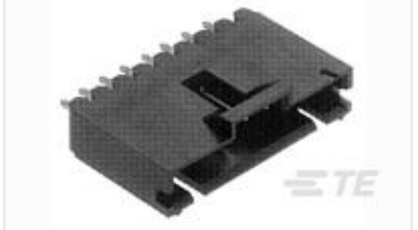


Power Contacts(1)

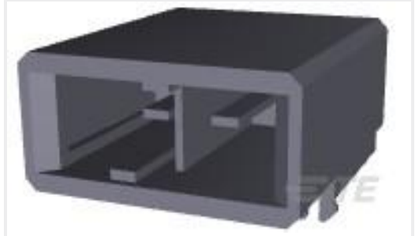
## Customers Also Bought



TE Part #1-87215-0
02 MODII HDR DRST UNSHRD .100



TE Part #5-103669-3
04 MTE HDR SRST LATCH W/HLDWN



TE Part #2-179276-2
DYNAMIC 3200 HDR ASSY 2P H PdNi & Au



TE Part #640385-2
02P MTA156 HDR ASSY SQ R/A



TE Part #1367073-2
20 POS SMT CONN, SFP, 30AU



TE Part #1367147-3
SFP COVER, UNPL, NO LOGO




TE Part #1825058-1
ADE02S04=DIP SWTCH,EXT,SMT-GW



TE Part #5406296-1
MJ ASSY,S/P,8P,SHLD,RVPGT,CAT5E



TE Part #5745354-4
37 PLUG RA/MS STD



TE Part #6469001-1
HM-ZD 4PR RECP 80P

## Documents

### CAD Files

Customer View Model

ENG_CVM_CVM_5646956-1_C.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5646956-1_C.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5646956-1_C.3d_stp.zip

English

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

### Datasheets & Catalog Pages

POWER_CONNECTORS_CATALOG_SEC01_BOARD_TO_BOARD

English

### Product Specifications

Engineering Report

English

### Agency Approvals

UL Report

English