



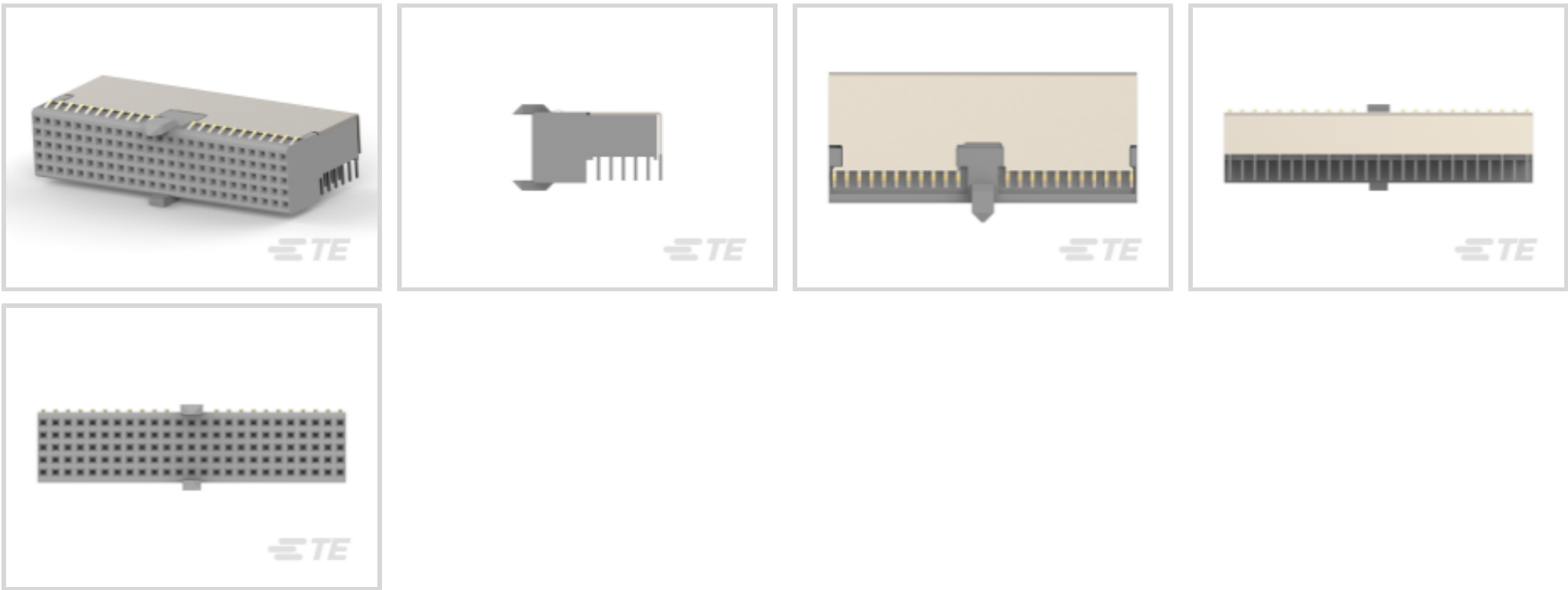
Z-PACK | Z-PACK 2mm HM

TE Internal #: 646547-1
Hard Metric Backplane PCB Mount Receptacle, ≤1 Gb/s, 25
Column, 5 Row, Mezzanine, 125 Position, 2 mm [.078 in] Centerline,
Right Angle, Z-PACK 2mm HM

[View on TE.com >](#)

Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors >

HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



PCB Connector Type: **PCB Mount Receptacle**

Data Rate: **≤1 Gb/s**

Number of Columns: **25**

Number of Rows: **5**

Backplane Architecture: **Mezzanine**

[All HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm \(48\)](#)

Features

Product Type Features

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

Configuration Features

| | |
|----------------------------|--------------|
| Rows Loaded | Fully Loaded |
| Number of Signal Positions | 125 |
| Number of Columns | 25 |
| Number of Rows | 5 |
| Backplane Architecture | Mezzanine |
| Number of Positions | 125 |



| | |
|-----------------------|-------------|
| PCB Mount Orientation | Right Angle |
|-----------------------|-------------|

Signal Characteristics

| | |
|-------------------|----------|
| Crosstalk Version | Standard |
| Data Rate | ≤1 Gb/s |

Body Features

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

Contact Features

| | |
|--|-----------------|
| Contact Underplating Material | Nickel |
| Contact Base Material | Phosphor Bronze |
| CompactPCI Designation | None |
| PCB Contact Termination Area Plating Material | Tin-Lead |
| Feedthrough Post Length | 3.3 mm |
| Contact Type | Socket |
| Contact Mating Area Plating Material | Gold (Au) |
| Contact Mating Area Plating Material Thickness | .76 μm[30 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 |
|-------------------------|-------------|

Housing Features

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

Dimensions

| | |
|-------------------------|---------|
| Backplane Module Length | 49.9 mm |
|-------------------------|---------|

Usage Conditions

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

Operation/Application

| | |
|---------------------|----------------|
| Shielded | Yes |
| Circuit Application | Power & 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 | 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 # 646529-1
Z-PACK 2MM HM TYPE A/B 169P

TE Part # 122562-1
SEATING TOOL

Also in the Series

Z-PACK 2mm HM

Backplane Connector Housings(4)

Backplane Power Connectors(1)

Connector Caps & Covers(62)

Connector Hardware(91)

Hard Metric Backplane Connectors
(266)

Insertion & Extraction Tools(2)

PCB Headers & Receptacles(46)

Rectangular Power Connectors(46)

Customers Also Bought

TE Part #1676703-2
RN 0805 49R9 0.1% 10PPM 1K RL

TE Part #2267080-1
TMS6T1B1M1QE

TE Part #CAT-472-Z12
Hard Metric Male Connector:
Traditional Backplane, Mezzanine,
2mm

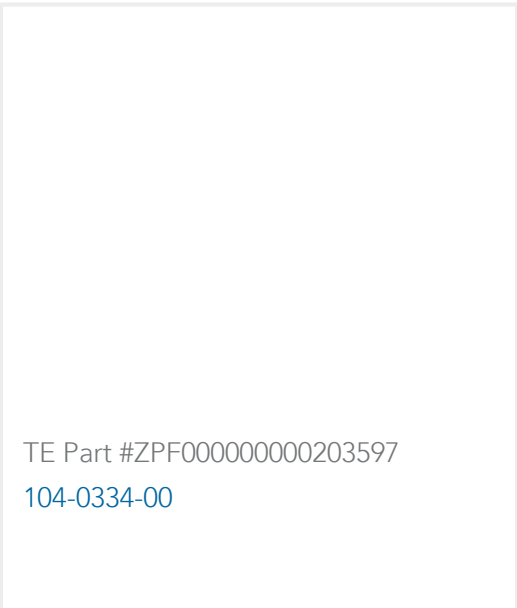
TE Part #2-1617030-7
HFW1201G01M = M39016/6-116M

TE Part #4-1462037-7
IM07GR=IM RELAY 200mW 24VDC

TE Part #1676703-3
RN 0805 49R9 0.1% 10PPM 5K RL

TE Part #2176573-1
RLC73PV 2A R02 1% 5K RL

TE Part #5352115-1
Z-PACK/C RAF 55P



Documents

Product Drawings

Z-PACK A-B 25 COLUMN SHLD ASSY

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_646547-1_G.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_646547-1_G.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_646547-1_G.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