646529-1 ✔ ACTIVE

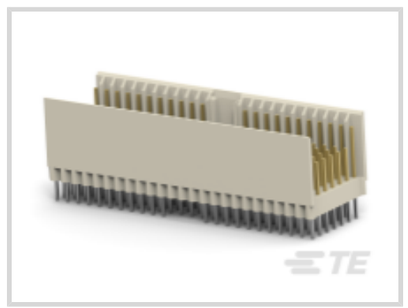
Z-PACK | Z-PACK 2mm HM

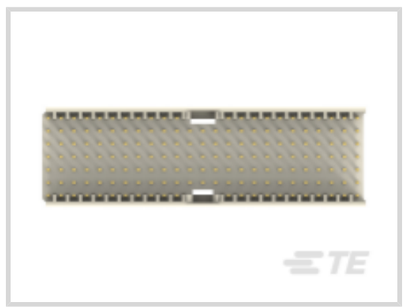
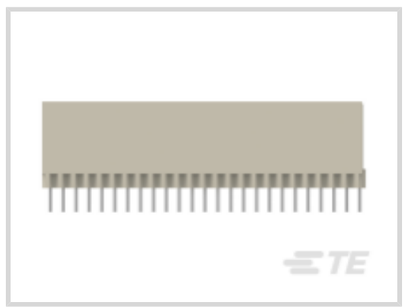
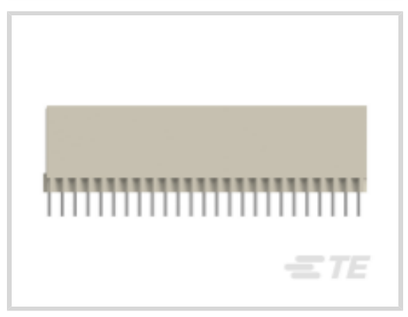
TE Internal #: 646529-1

Hard Metric Backplane PCB Mount Header, 1 Gb/s, 25 Column, 7 Row, Traditional Backplane, 169 Position, 2 mm [.079 in] Centerline, Z-PACK 2mm HM

View on TE.com >

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



PCB Connector Type: **PCB Mount Header**

Data Rate: **1 Gb/s**

Number of Columns: **25**

Number of Rows: **7**

Backplane Architecture: **Traditional Backplane**

Features

Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Connector System	Board-to-Board
PCB Connector Type	PCB Mount Header
Sealable	No

Configuration Features

Number of Columns	25
Number of Rows	7
Backplane Architecture	Traditional Backplane
Number of Positions	169
PCB Mount Orientation	Vertical

Signal Characteristics

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
Contact Mating Area Plating Material	Gold (Au)
Contact Mating Area Plating Material Thickness	.38 µm[14.96 µin]
Contact Current Rating (Max)	1.5 A

Mechanical Attachment

Connector Mounting Type	Board Mount

Housing Features

Housing Material	Polyester GF
Centerline (Pitch)	2 mm[.079 in]

Usage Conditions

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

Operation/Application

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>

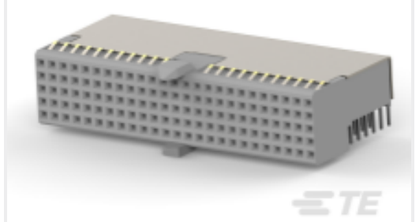
EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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

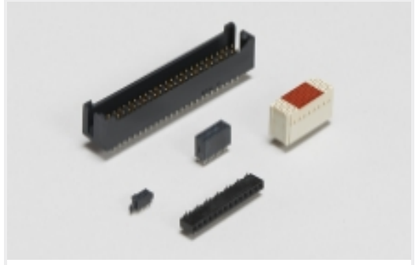
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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 # 646547-1
Z-PACK A-B 25 COLUMN SHLD ASSY

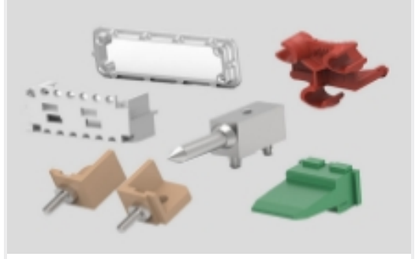
Also in the Series | Z-PACK 2mm HM



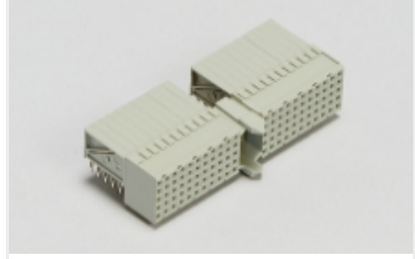
Board-to-Board Headers & Receptacles(46)



Connector Contacts(1)



Connector Hardware(91)



Hard Metric Backplane Connectors (264)



Power Contacts(1)

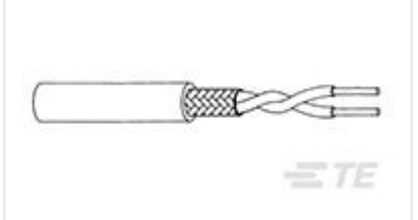


Rectangular Power Connectors(46)

Customers Also Bought



TE Part #316075-000
55A1121-24-6/9-9



TE Part #234062-002
2524E0114-9



TE Part #106081-1
2MM HM, HEADER, TYPE C

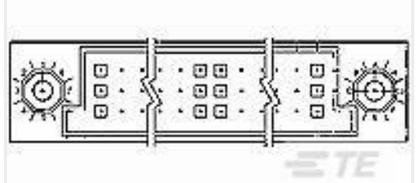


TE Part #204506-1
RECEPT ASSY,62 POSN,AMPLIMITE

TE Part #213337-1
DUST COVER,MIL 600



TE Part #445705-7
AMPLIMITE COAX MIX,3C3



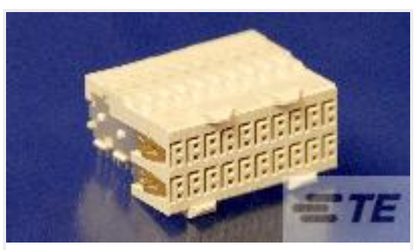
TE Part #532433-1
HDI PIN ASSY 3 ROW 75 POS



TE Part #5-2176070-0
3521 1K1 1% 2W



TE Part #5-2301995-1
RJ45 JACK INT.MAG. 1GB 1X1 VERT.



TE Part #6469028-1
HM-ZD 2PR RECP 40P

Documents

Product Drawings

Z-PACK 2MM HM TYPE A/B 169P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_646529-1_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_646529-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_646529-1_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