646362-1 ✔ ACTIVE

Z-PACK | Z-PACK 2mm HM

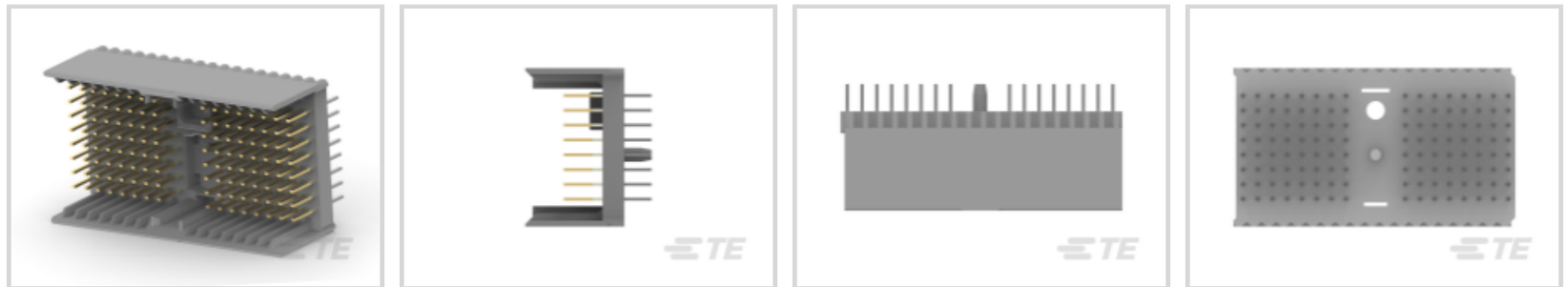
TE Internal #: 646362-1

Hard Metric Backplane PCB Mount Header, ≤1 Gb/s, 16 Column, 8 Row, Mezzanine, 128 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: **16**

Number of Rows: **8**

Backplane Architecture: **Mezzanine**

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

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 Header
Sealable	No

Configuration Features

Number of Columns	16
Number of Rows	8
Backplane Architecture	Mezzanine
Number of Positions	128
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
PCB Contact Termination Area Plating Material	Tin-Lead
Feedthrough Post Length	3.7 mm
Contact Type	Pin
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
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	38 mm

Usage Conditions

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

Operation/Application

Shielded	No
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	13
Packaging Method	Tube

Product Compliance

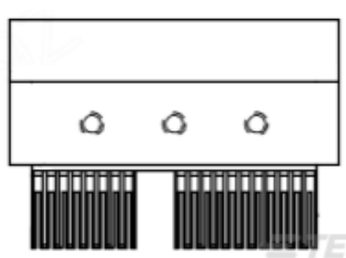
For compliance documentation, visit the product page on TE.com>

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

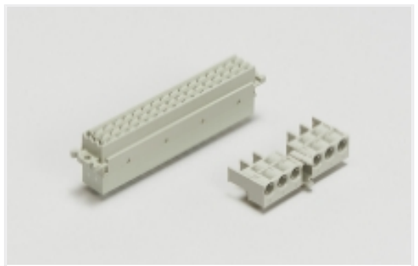
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

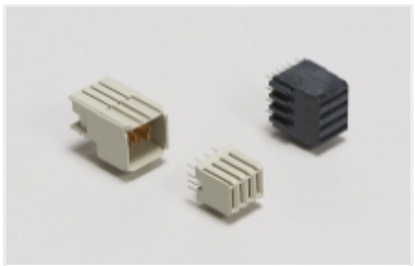


TE Part # 224671-2
HM 2MM Z PK SEATING TL ASSY

Also in the Series | Z-PACK 2mm HM



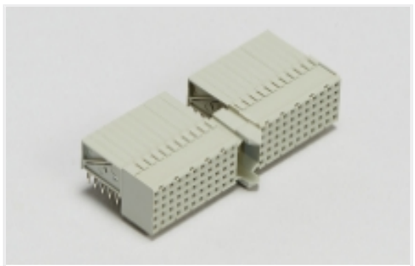
Backplane Connector Housings(4)



Backplane Power Connectors(1)



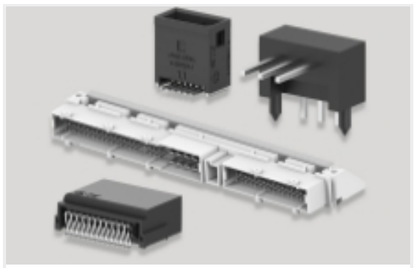
Connector Caps & Covers(62)



Hard Metric Backplane Connectors (264)



Insertion & Extraction Tools(2)



PCB Headers & Receptacles(46)



Power Contacts(1)



Rectangular Power Connectors(46)

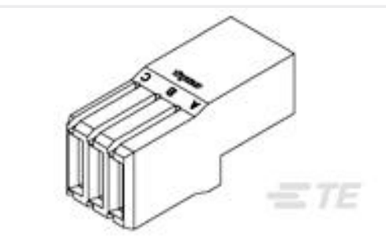
Customers Also Bought



TE Part #41449
250 FASTON REC 14-10 AWG BR



TE Part #66255-2
MALE CONTACT ASSY. (STRIP)



TE Part #120943-1
UPM R/A REC HC 3P Power Connector



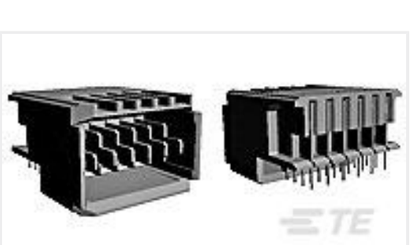
TE Part #120953-3
UPM EXPANDED RCPT ASSEMBLY



TE Part #120954-1
TE UPM R/A Header 4P HC Power, LLLL



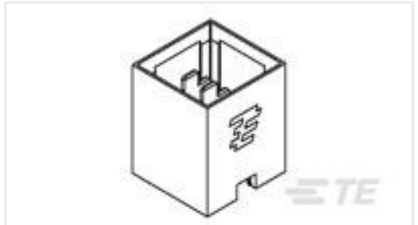
TE Part #120955-1
TE UPM R/A Header 5P HC Power, LLLLL



TE Part #120956-1
UPM EXPANDED PIN ASSEMBLY



TE Part #534206-5
10 MODII VRT DR CE 100/115



TE Part #1645498-1
UNV,PWR,MDL.3 POS. VERT.HDR, 15MM STACK



TE Part #2110069-1
SFP+ 1x4 Cage Assembly, Light Pipes

Documents

Product Drawings

2MM HM ASY,T-D,HDR,8R,128P

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_646362-1_E.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_646362-1_E.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_646362-1_E.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