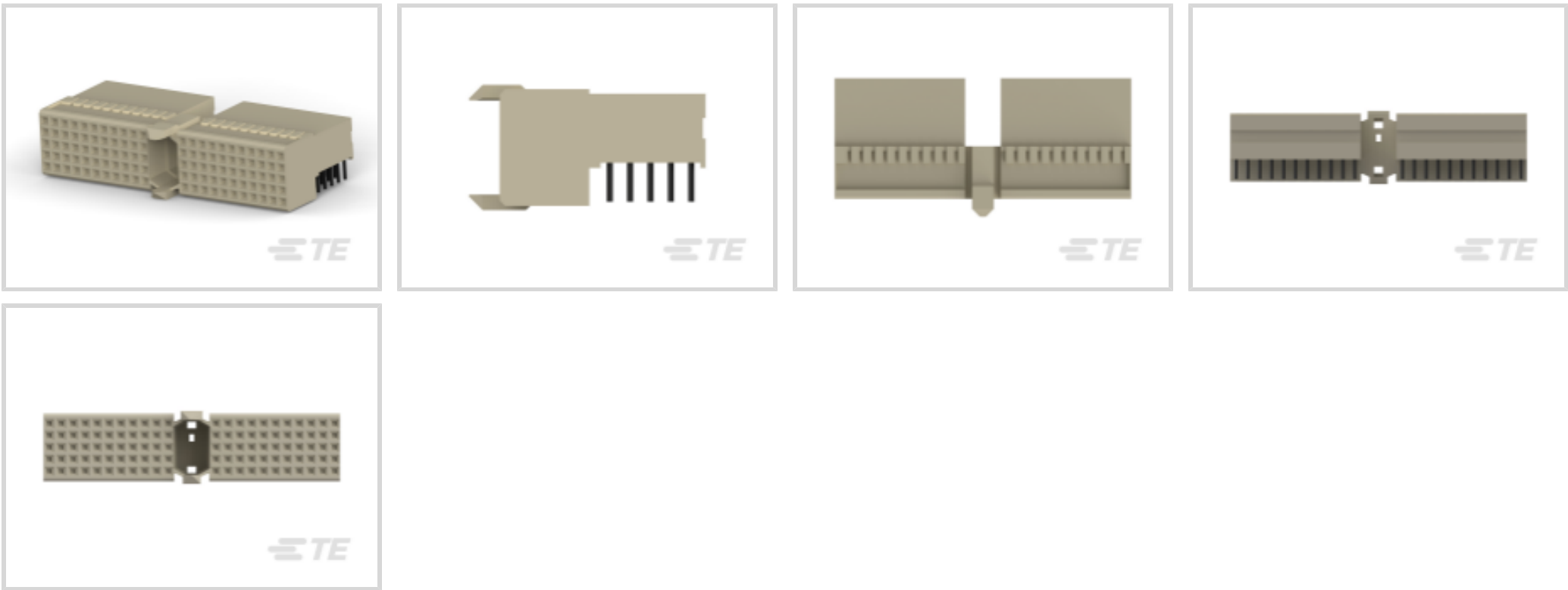




Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors >

HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



PCB Connector Type: **PCB Mount Receptacle**

Data Rate: **≤1 Gb/s**

Number of Columns: **22**

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	A, B, C, D, E
Number of Columns	22
Number of Rows	5
Backplane Architecture	Mezzanine
Number of Positions	110
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 Mating Area Length	3.7 mm
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
Mating Alignment Type	Multi-Purpose Center

Housing Features

Housing Material	PBT 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	No
Circuit Application	Power & Signal



Industry Standards

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

Packaging Features

Packaging Quantity	11
Packaging Method	Tube

Product Compliance

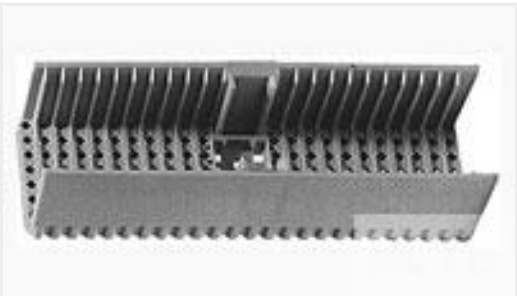
For compliance documentation, visit the product page on [TE.com](#)>

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

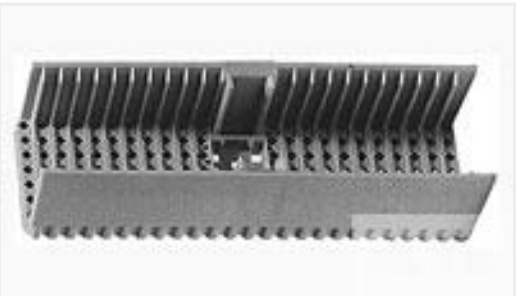
Product Compliance Disclaimer

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>

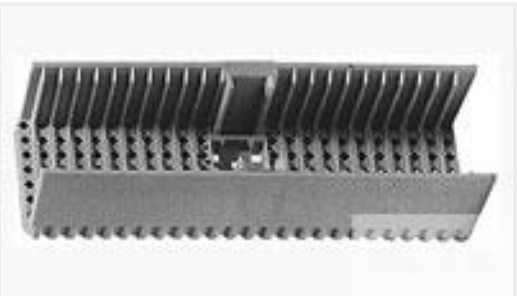
Compatible Parts



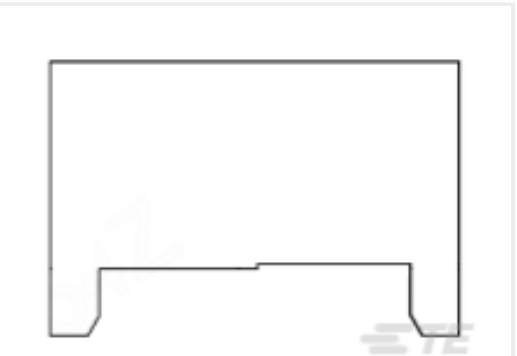
TE Part # 646478-1
2MM H.M., "A" SHROUD, 3MM



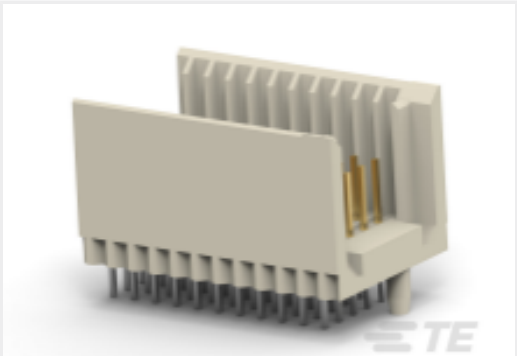
TE Part # 646478-7
2MM H.M., "A" SHROUD, 4.9MM



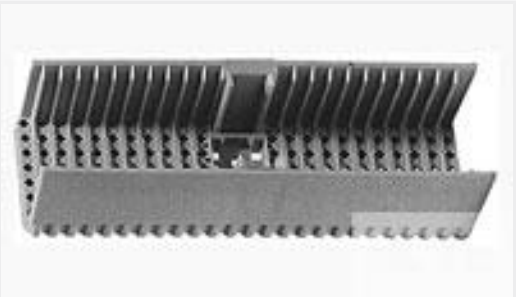
TE Part # 646478-6
2MM H.M., "A" SHROUD, 4.7MM



TE Part # 122559-1
SEATING TOOL 2MM HM 7 ROW



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



TE Part # 646478-4
2MM H.M., "A" SHROUD, 4.3MM



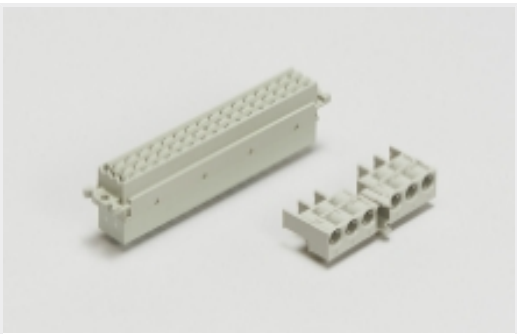
TE Part # 646478-2
2MM H.M., "A" SHROUD, 3.9MM



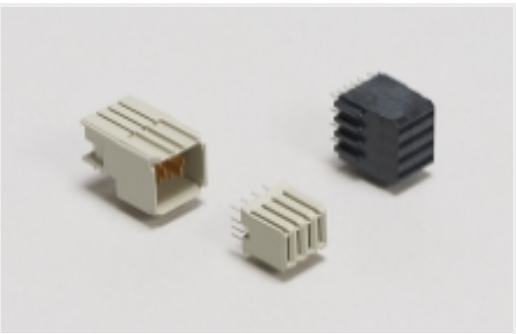
TE Part # 646478-5
2MM H.M., "A" SHROUD, 4.5MM

Also in the Series

Z-PACK 2mm HM



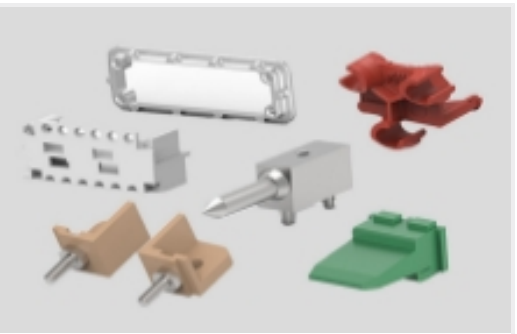
Backplane Connector Housings(4)



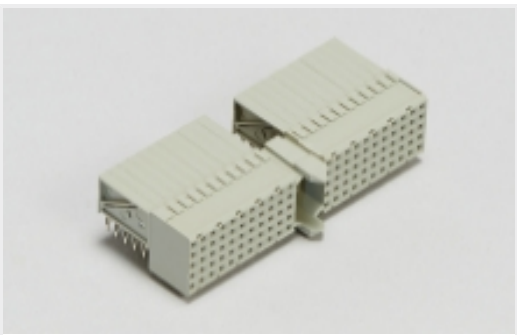
Backplane Power Connectors(1)



Connector Caps & Covers(62)



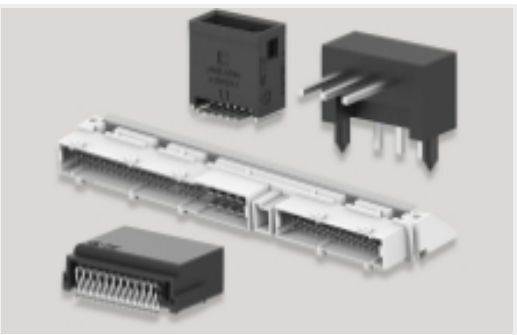
Connector Hardware(91)



Hard Metric Backplane Connectors
(266)



Insertion & Extraction Tools(2)



PCB Headers & Receptacles(46)

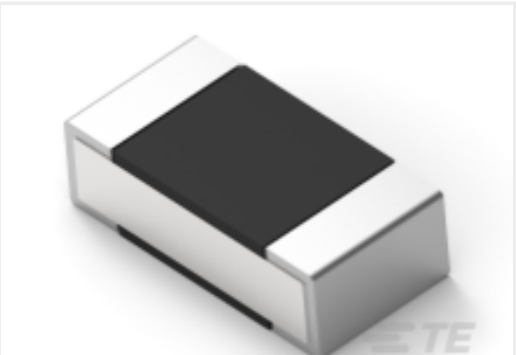


Rectangular Power Connectors(46)

Customers Also Bought



TE Part #215877-1
8/8 PCB MOD.JACK SE



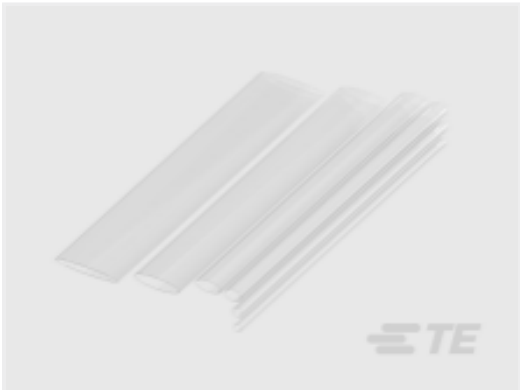
TE Part #2-2176308-2
RP 1E 0.1W 221K 0.1% 25PPM 5K RL



TE Part #100161-1
Z-PACK/C F-HDR 55P



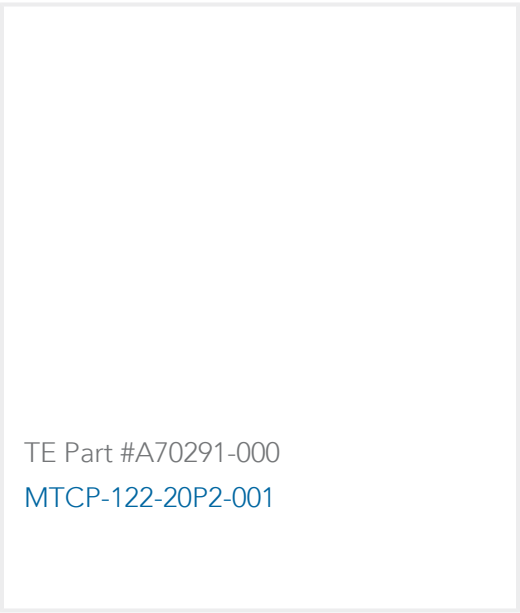
TE Part #50462-6
SOCKET, MIN-SPR AU SER-2



TE Part #NB15524001
RNF-100-3/64-CL-SP



TE Part #NB17304001
RP-4800-NO.1-0-SP



TE Part #A70291-000
MTCP-122-20P2-001



TE Part #1-1393143-9
27E166=SOCKET,KH,14,SCW,SURF-MOUNT



TE Part #1-1617127-4
JM5C-5XP = M39016/11-033P



TE Part #5-1879354-3
RR03 5% 47R AMMO

Documents

Product Drawings
Z-PACK/A F-HDR.110P

English

CAD Files
3D PDF

English

Customer View Model
ENG_CVM_100147-1_N.2d_dxf.zip

English

Customer View Model
ENG_CVM_100147-1_N.3d_igs.zip

English

Customer View Model
ENG_CVM_100147-1_N.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

Instruction Sheets
INSERTION TOOL FOR Z-PACK 2mm HM CONN.

Japanese

Instruction Sheet (non U.S.)

Japanese

100147-1

Hard Metric Backplane PCB Mount Receptacle, ≤1 Gb/s, 22 Column, 5 Row,
Mezzanine, 110 Position, 2 mm [.078 in] Centerline, Right Angle, Z-PACK 2mm HM

