5646489-1 ✔ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5646489-1

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

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: **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 Signal Positions	125
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 Base Material	Phosphor Bronze
CompactPCI Designation	None
PCB Contact Termination Area Plating Material	Tin
Feedthrough Post Length	3.3 mm
Contact Type	Socket
Contact Mating Area Plating Material	Performance Based
Contact Mating Area Plating Material Thickness	.76 µm[30 µin]
Contact Current Rating (Max)	1.5 A

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	44 mm

Usage Conditions

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

Operation/Application

Shielded	Yes
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	10
Packaging Method	Tube

Product Compliance

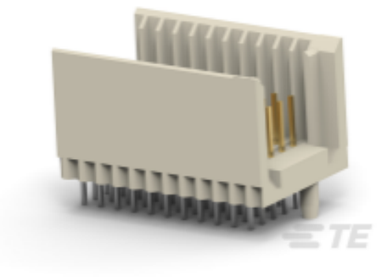
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No 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) 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

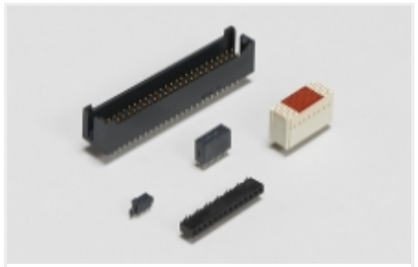
Compatible Parts



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

TE Part # 1645593-1
2MM HM,TYPE A/B,HDR,ASY,146POS

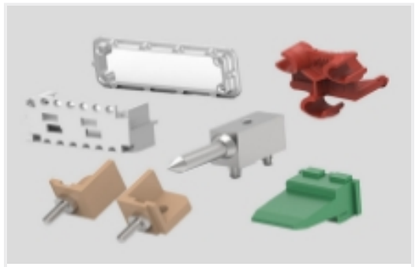
Also in the Series | Z-PACK 2mm HM



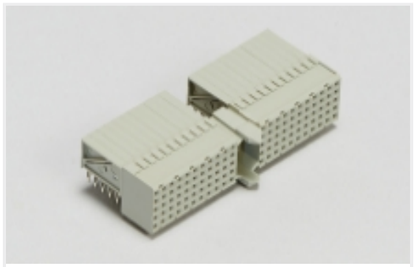
Board-to-Board Headers & Receptacles(46)



Connector Contacts(1)



Connector Hardware(91)



Hard Metric Backplane Connectors (264)

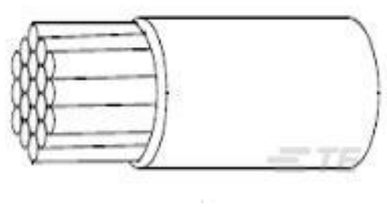


Power Contacts(1)



Rectangular Power Connectors(46)

Customers Also Bought



TE Part #216385-001
22759/32-20-0



TE Part #292206-6
MINI CT SGL DIP H 6P NAT



TE Part #787171-7
68 50SR R/A RCPT ASSY,REDESIGN



TE Part #1-796375-1
CPC PSTD RCPT,13-9,R/A LF



TE Part #1-1617086-4
3SBM1109A2 = M39016/35-003M



TE Part #7-1676914-5
YR1 0.1% 619R



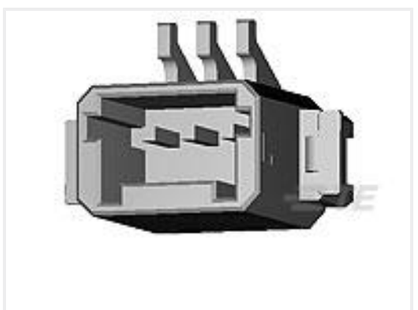
TE Part #6-1879214-5
CPF 0402 1K69 0.1% 25PPM 1K RL



TE Part #3-1879215-9
CPF 0402 10K5 0.1% 25PPM 1K RL



TE Part #2102785-1
RIGID FLEX STACKING CONN



TE Part #2106091-2
3 pos Inverted Thru Board SMT Header

Documents

Product Drawings

2MM H.M. A/B-22 RECEPT. ASSY.

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_5646489-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_5646489-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_5646489-1_A.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