

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	有害物质含量符合标准要求 No Restricted Substance(s) 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

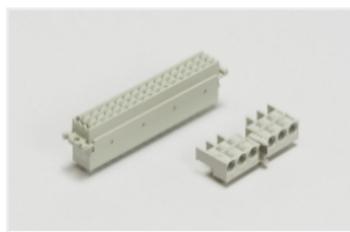
Product Compliance Disclaimer

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>

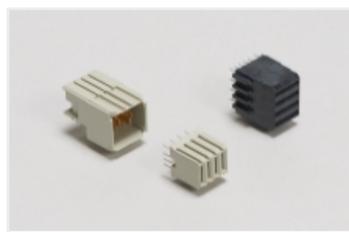
Compatible Parts

<p>TE Part # 1645593-1 2MM HM,TYPE A/B,HDR,ASY,146POS</p>	 <p>TE Part # CAT-472-Z12 Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm</p>
---	---

Also in the Series | Z-PACK 2mm HM



Backplane Connector Housings(4)



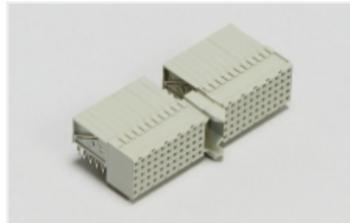
Backplane Power Connectors(1)



Connector Caps & Covers(62)



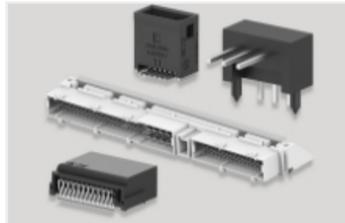
Connector Hardware(91)



Hard Metric Backplane Connectors (264)



Insertion & Extraction Tools(2)

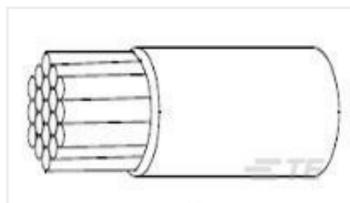


PCB Headers & Receptacles(46)



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



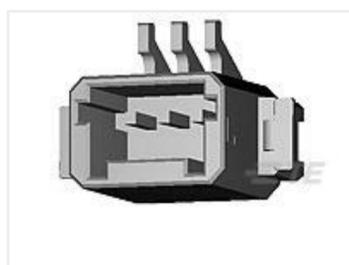
TE Part #6-1879214-5
CPF 0402 1K69 0.1% 25PPM 1K RL



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