

5646446-1 ✓ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5646446-1

Hard Metric Backplane PCB Mount Receptacle, ≤ 1 Gb/s, 11

Column, 8 Row, Mezzanine, 88 Position, 2 mm [.078 in] Centerline,

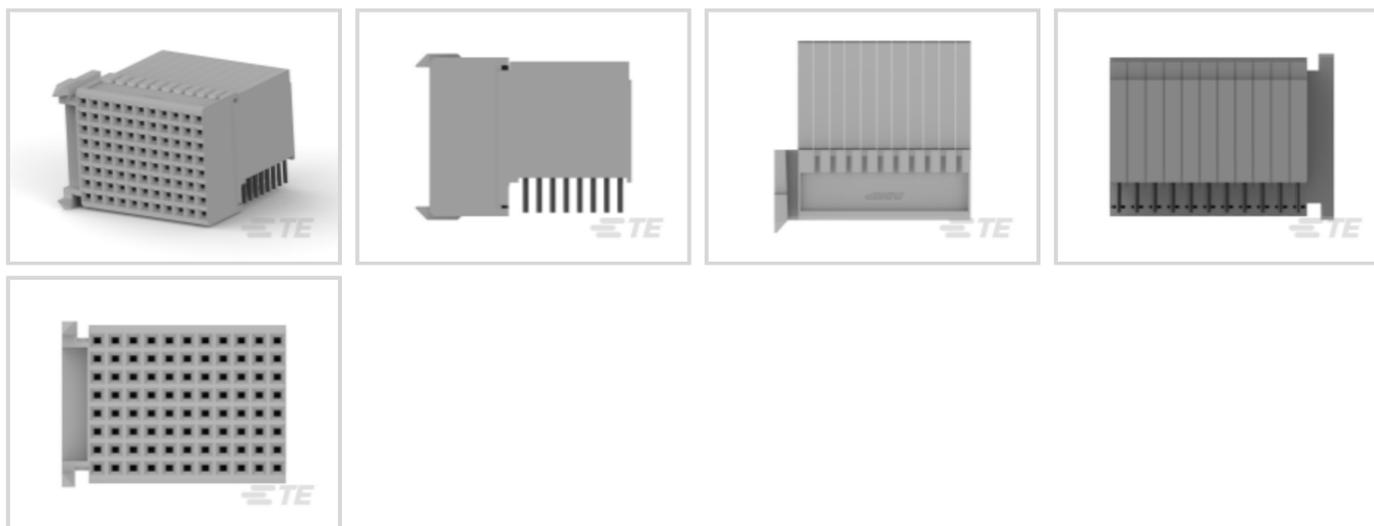
Right Angle, Z-PACK 2mm HM

[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: **11**

Number of Rows: **8**

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, F, G, H
Number of Signal Positions	88
Number of Columns	11
Number of Rows	8
Backplane Architecture	Mezzanine
Number of Positions	88



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
------------------------------	-------

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	Polyester GF
------------------	--------------

Centerline (Pitch)	2 mm [.078 in]
--------------------	----------------

Dimensions

Backplane Module Length	25 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	20
Packaging Method	Box

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) 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 # 2170310-2
2MM HM,ASY,T-F,PIN,088 POS

TE Part # 3-5646457-0
2MM HM,ASY,T-F,PIN,088 POS

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

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 #234064-E
STVBTL BUT 100 CSI 2026 207 * J 2 34093

TE Part #024070-E
STVBUG E 160 CSI 172 9999 * J 4 24070 FE

TE Part #1-1623772-7
C7 1R0 2% AMMO PK

TE Part #1676142-2
RN 0805 100K 0.1% 10PPM 1KRL

TE Part #7-2176392-5
RQ 1206 787K 0.1% 10PPM 5K RL

TE Part #2176404-9
3550 30K 1%

TE Part #5100161-1
Z-PACK/C RAF 55P

TE Part #5646347-1
2MM HM,ASY,T-E,HDR,08R,200,AP



Documents

Product Drawings

[2MM HM,ASY,T-F,REC,TWIST TULIP](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_5646446-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_5646446-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_5646446-1_A.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Product Specifications

[Product Specification](#)

English

[Product Specification](#)

English