



THE DATASHEET OF
5646547-1



5646547-1 ✓ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5646547-1

Hard Metric Backplane PCB Mount Receptacle, ≤ 1 Gb/s, 25

Column, 5 Row, Mezzanine, 125 Position, 2 mm [.078 in] Centerline,

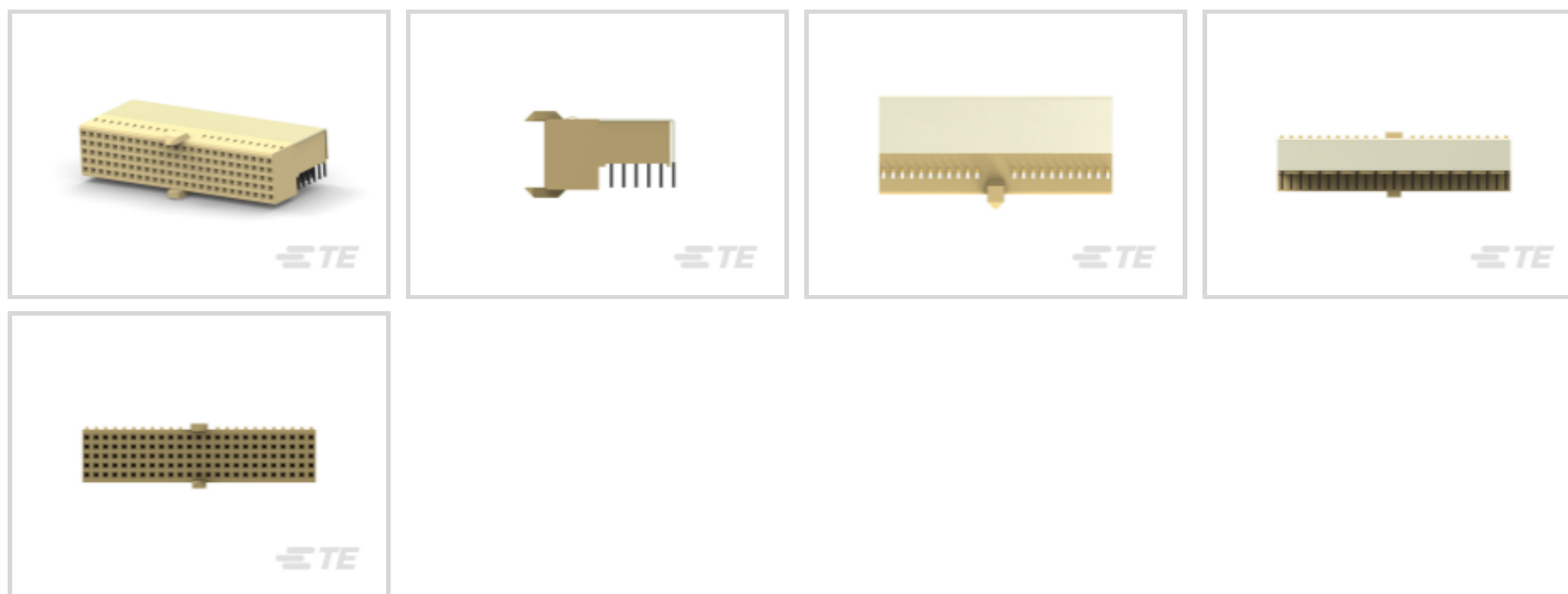
Right Angle, Z-PACK 2mm HM

[View on TE.com >](#)



[Connectors >](#) [PCB Connectors >](#) [Backplane Connectors >](#) [Hard Metric Backplane Connectors >](#)

HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



PCB Connector Assembly Type: **PCB Mount Receptacle**

Data Rate: ≤ 1 Gb/s

Number of Columns: **25**

Number of Rows: **5**

Backplane Architecture: **Mezzanine**

[All HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm \(48\)](#)

Features

Mechanical Attachment

Connector Mounting Type	Board Mount
-------------------------	-------------

Industry Standards

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

Termination Features

Termination Method to PCB	Through Hole - Press-Fit
---------------------------	--------------------------

Dimensions

Backplane Module Length	49.9 mm
-------------------------	---------

Operation/Application

Shielded	Yes
----------	-----

Circuit Application	Power & Signal
---------------------	----------------

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	Gold Flash over Palladium Nickel, Gold
Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Contact Current Rating (Max)	1.5 A

Packaging Features

Packaging Quantity	10
Packaging Method	Tube

Housing Features

Housing Material	Polyester - GF
Centerline (Pitch)	2 mm[.078 in]

Configuration Features

Rows Loaded	Fully Loaded
Number of Signal Positions	125
Number of Columns	25
Number of Rows	5
Backplane Architecture	Mezzanine
Number of Positions	125
PCB Mount Orientation	Right Angle

Signal Characteristics

Crosstalk Version	Standard
Data Rate	≤1 Gb/s

Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Backplane Interface Type	2mm HM
Connector System	Board-to-Board
PCB Connector Assembly Type	PCB Mount Receptacle
Sealable	No



Body Features

Primary Product Color	Gray
-----------------------	------

Usage Conditions

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

Other

EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant

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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) 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

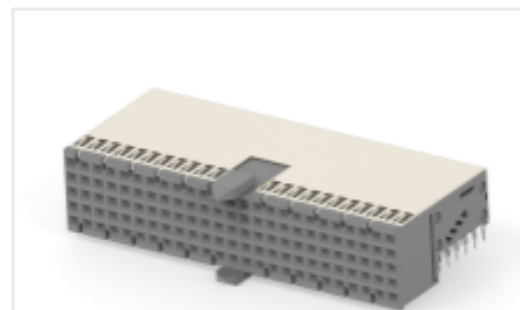
Product Compliance Disclaimer

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>

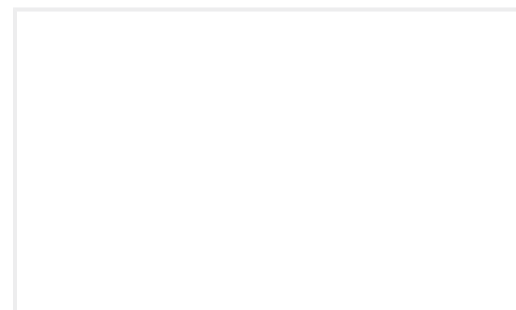
Compatible Parts



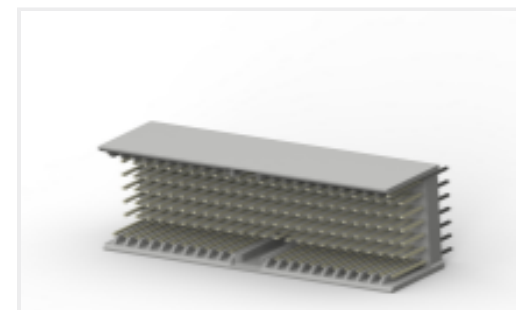
TE Part # 5646884-1
2MMHM TYPE A/B 125 POS INVERSE



TE Part # 2392865-1
Z-PACK A-B 25 COLUMN SHLD ASSY EON



TE Part # 2170154-1
MALE ASSEMBLY, Z-PACK 2mm HM, TYPE A/B

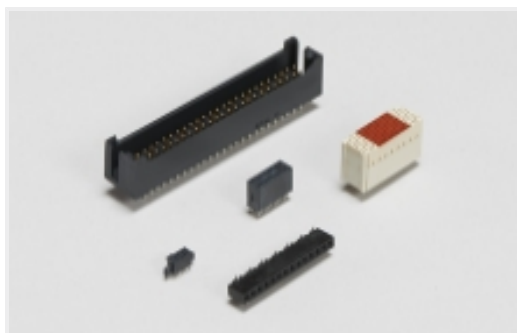


TE Part # 5646529-1
Z-PACK 2MM HM TYPE A/B 169P



TE Part # 122562-1
SEATING TOOL

Also in the Series | Z-PACK 2mm HM



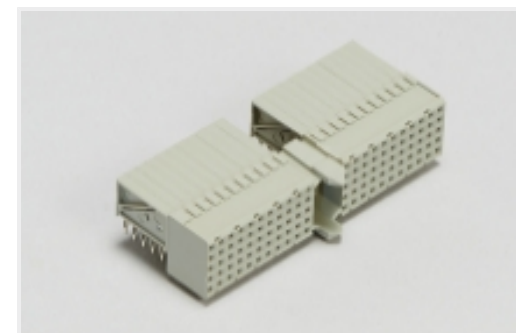
Board-to-Board Headers & Receptacles(46)



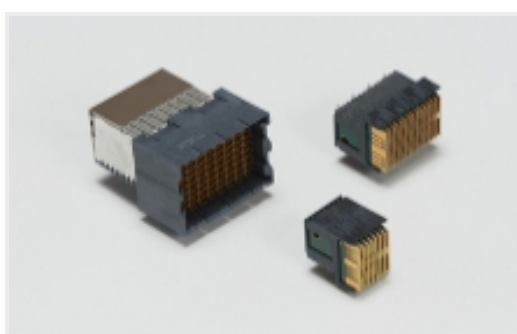
Connector Contacts(2)



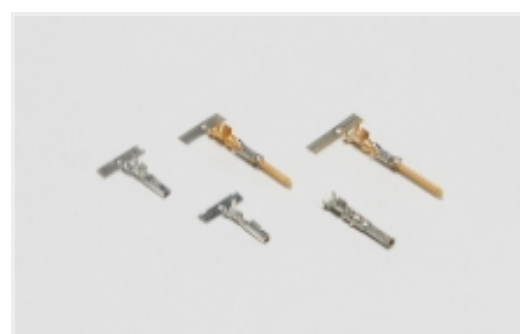
Connector Hardware(91)



Hard Metric Backplane Connectors (267)

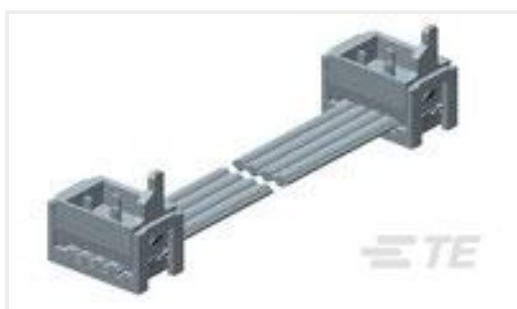


High Speed Backplane Connectors(1)



Power Contacts(2)

Customers Also Bought



TE Part #2205066-1
CA MICRO-MATCH MOW-MOW 16POS



TE Part #2822650-1
MP456P HD Receptacle Connector



TE Part #2-6450550-9
MBXL VERT RCPT 4P+40S+4P



TE Part #2357739-1
16G,05FH,REC,220PIN,4H,Hard Tray



TE Part #6469028-1
HM-ZD 2PR RECP 40P



TE Part #3-1879021-5
SMW3 2R7 5%



TE Part #5747877-3
FEMALE SCREWLOCK ZINC CLEAR



TE Part #5787082-9
100 50SR R/A RCP ASSY,RDSN L/F



TE Part #6469081-1
HMZD 3PR, RECEPTACLE ASSEMBLY



TE Part #146839-3
CF HDR,SMT,50P,VERT,TYPE 1,LEAD FREE

Documents

Product Drawings

Z-PACK A-B 25 COLUMN SHLD ASSY

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_5646547-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5646547-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5646547-1_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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

[View 5646547-1 on WIN SOURCE](#)

[TE Connectivity Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management