

5646486-1 ✓ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5646486-1

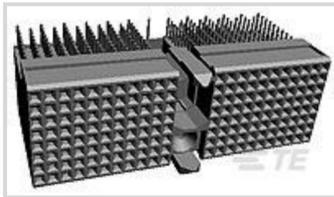
Hard Metric Backplane PCB Mount Receptacle,  $\leq 1$  Gb/s, 25  
Column, 8 Row, Midplane, 176 Position, 2 mm [.078 in] Centerline,  
Right Angle, Z-PACK 2mm HM

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

Hard Metric Backplane Receptacle Connector: Mezzanine, 2mm



PCB Connector Type: **PCB Mount Receptacle**

Data Rate:  $\leq 1$  Gb/s

Number of Columns: **25**

Number of Rows: **8**

Backplane Architecture: **Midplane**

[All Hard Metric Backplane Receptacle Connector: Mezzanine, 2mm \(27\)](#)

## Features

### Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Ground Feature Type	Grounding Contact, Ground Return Shielding
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	176
Number of Columns	25
Number of Rows	8
Backplane Architecture	Midplane
Number of Positions	176
PCB Mount Orientation	Right Angle

### Signal Characteristics



Crosstalk Version	Standard
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Data Rate	≤1 Gb/s
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### Body Features

Primary Product Color	Gray
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### Contact Features

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

Termination Method to PCB	Through Hole - Press-Fit
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### Mechanical Attachment

Connector Mounting Type	Board Mount
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Mating Alignment Type	Multi-Purpose Center
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### Housing Features

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

Backplane Module Length	48 mm
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### Usage Conditions

Operating Temperature Range	-55 – 125 °C[-67 – 257 °F]
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### Operation/Application

Shielded	Yes
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Circuit Application	Signal
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### Industry Standards

UL Flammability Rating	UL 94V-0
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## 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

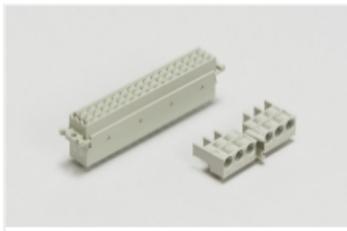
### Product Compliance Disclaimer

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>

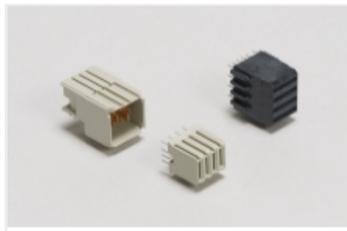
## Compatible Parts



Also in the Series | [Z-PACK 2mm HM](#)



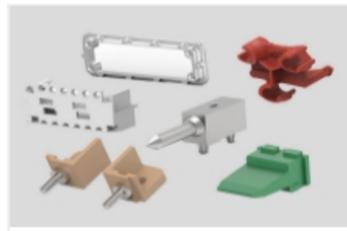
Backplane Connector Housings(4)



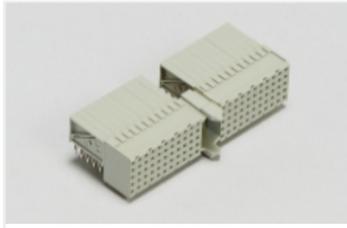
Backplane Power Connectors(1)



Connector Caps & Covers(62)



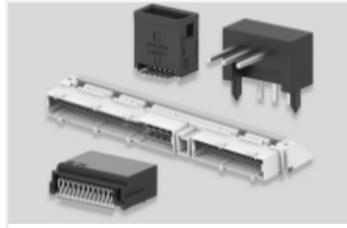
Connector Hardware(91)



Hard Metric Backplane Connectors (264)



Insertion & Extraction Tools(2)

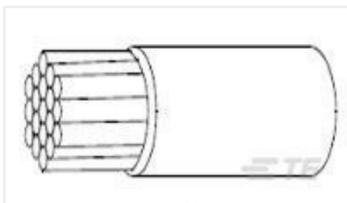


PCB Headers & Receptacles(46)



Rectangular Power Connectors(46)

## Customers Also Bought



TE Part #216442-000  
22759/33-24-6



TE Part #2-103639-5  
02 MTE HDR SRST LATCH .100CL



TE Part #5-520314-4  
TRIOMATE ASSY H 4P L=2.54 LDFR



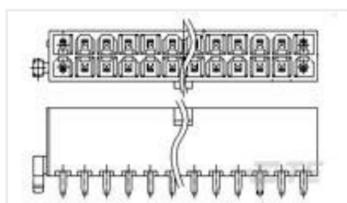
TE Part #880584-4  
SHUNT CONNECTOR



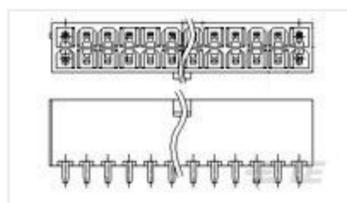
TE Part #1-1410353-1  
MULTIGIG RT 9MM GUIDE/ESD 0 DE



TE Part #1623933-4  
CFR50 5% 330R



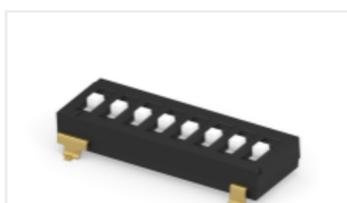
TE Part #1-1775099-3  
ATX PWR CONN 1 BDLK 24 POS



TE Part #4-1775099-2  
ATX PWR CONN 8 POS



TE Part #4-2176237-7  
CPF A 0603 20K 0.1% 25PPM 5K RL



TE Part #1-2319747-8  
TRI-STATE DIP 8P G RAISED T&R

## Documents



### Product Drawings

[8-ROW,TWST,TUL TYPE/D W/SHEILD](#)

English

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### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_5646486-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5646486-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_5646486-1\\_A.3d\\_stp.zip](#)

English

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### Product Specifications

[Application Specification](#)

English