



Z-PACK | Z-PACK 2mm HM

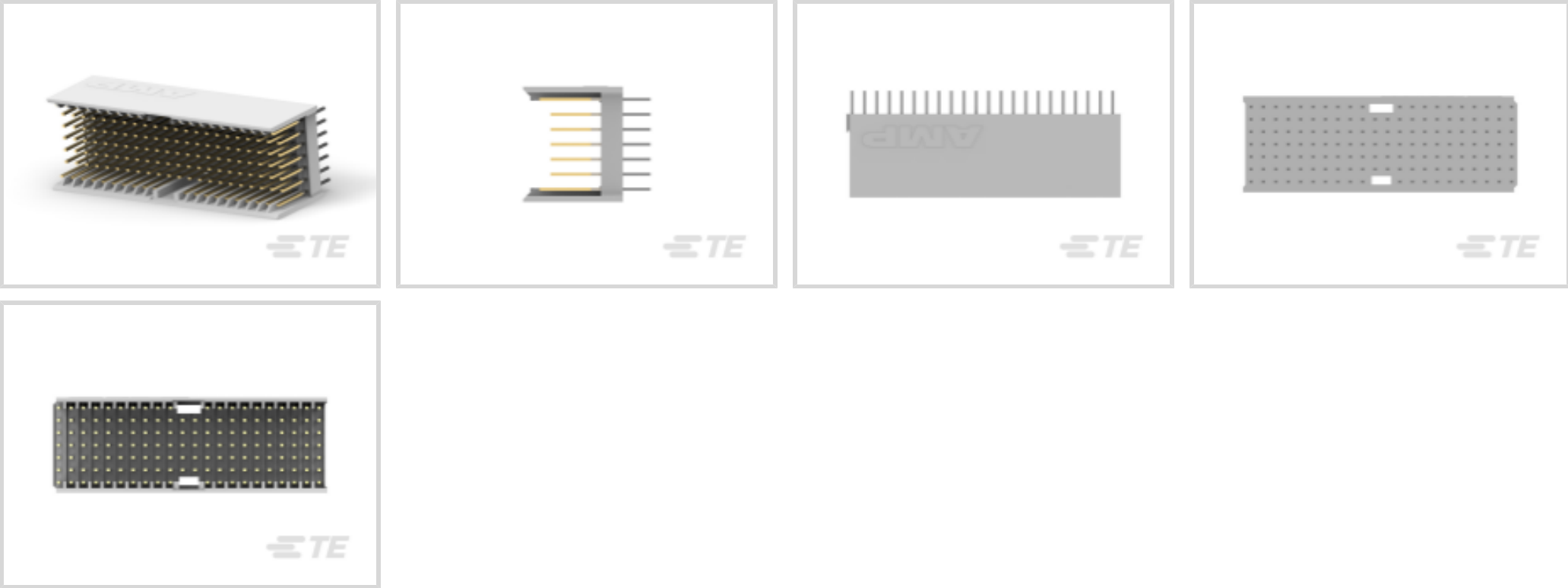
TE Internal #: 5646534-1

PCB Mount Header, ≤1 Gb/s, 22 Column, 7 Row, Mezzanine, 146  
Position, 2 mm [.078 in] Centerline, Z-PACK 2mm HM, Hard Metric  
Backplane Connectors

[View on TE.com >](#)

Connectors > PCB Connectors > Backplane Connectors > Hard Metric Backplane Connectors >

Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm



PCB Connector Assembly Type: **PCB Mount Header**

Data Rate: **≤1 Gb/s**

Number of Columns: **22**

Number of Rows: **7**

Backplane Architecture: **Mezzanine**

[All Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm \(124\)](#)

Features

Product Type Features

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

Configuration Features

Rows Loaded	A, B, C, D, E, F, Z
Number of Signal Positions	110, 125
Number of Columns	22
Number of Rows	7
Backplane Architecture	Mezzanine
Number of Positions	146



PCB Mount Orientation	Vertical
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Signal Characteristics

Crosstalk Version	Standard
Data Rate	≤1 Gb/s

Body Features

Primary Product Color	Gray
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Contact Features

Contact Mating Area Length	6.75 mm, 8.25 mm
Feedthrough Post Length	3.7 mm
CompactPCI Designation	None
Contact Type	Pin
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Base Material	Phosphor Bronze
Contact Mating Area Plating Material	Gold, Gold Flash over Palladium Nickel
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
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Mechanical Attachment

Connector Mounting Type	Board Mount
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Housing Features

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

Dimensions

Backplane Module Length	43.88 mm
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Usage Conditions

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

Shielded	No
Circuit Application	Signal



Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	11
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 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

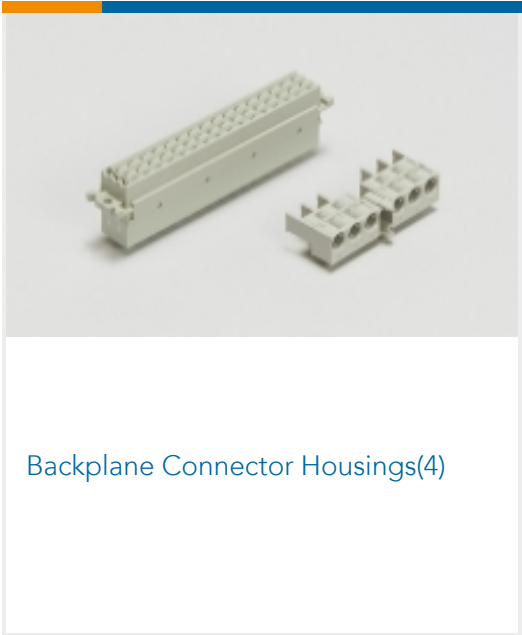
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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

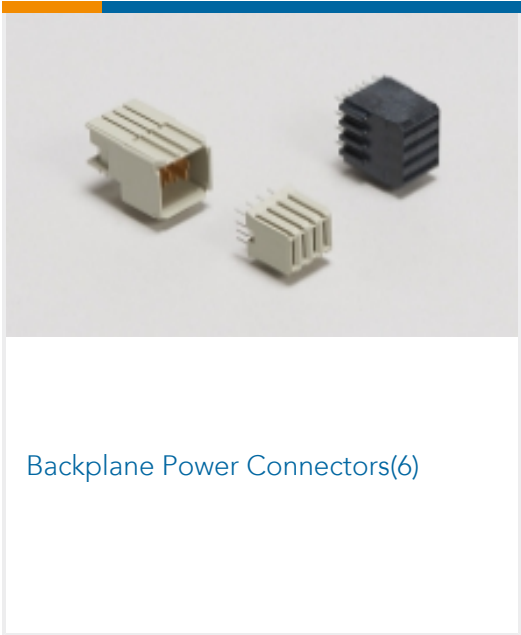


TE Part # 5646489-1  
2MM H.M. A/B-22 RECEPT. ASSY.

Also in the Series | Z-PACK 2mm HM



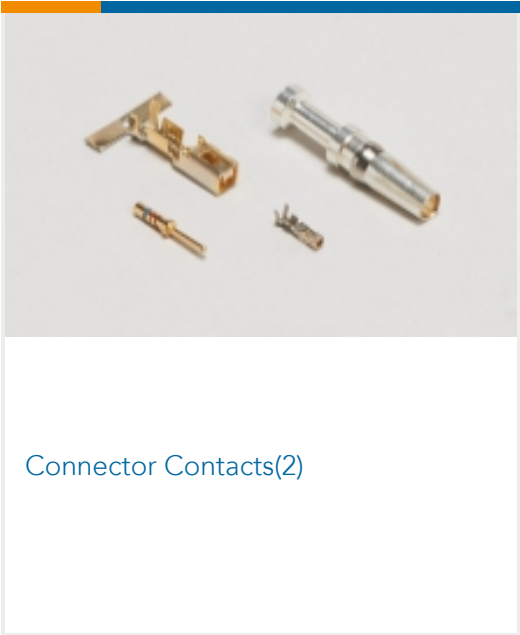
Backplane Connector Housings(4)



Backplane Power Connectors(6)



Connector Caps & Covers(62)



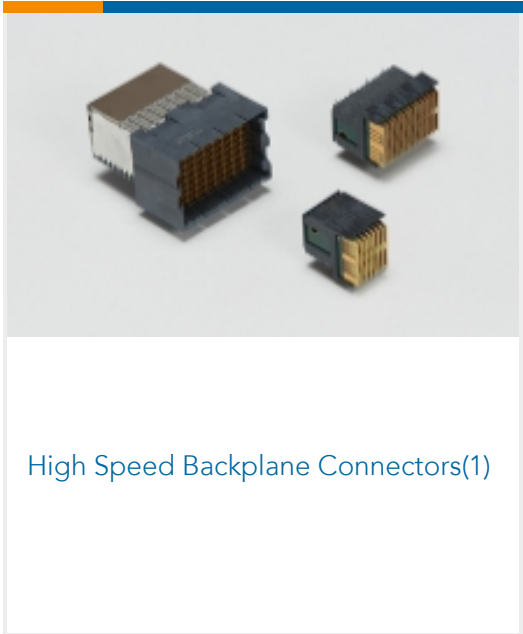
Connector Contacts(2)



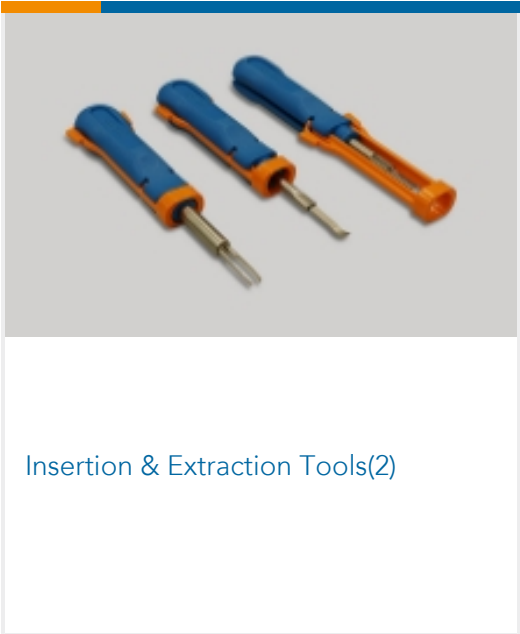
Connector Hardware(97)



Hard Metric Backplane Connectors  
(267)



High Speed Backplane Connectors(1)



Insertion & Extraction Tools(2)



Rectangular Power Connectors(87)

Customers Also Bought



TE Part #5646489-1  
HM Receptacle Connector: Traditional Backplane, Coplanar, 2mm



TE Part #5188835-1  
Z-PACK/B M-HDR 154P.



TE Part #4-2176231-7  
3522 820R 1% 3W



TE Part #7-2176306-3  
RP 1E 0.1W 6K49 0.1% 25PPM 5K RL





TE Part #1-2176364-8  
RQ 0402 6K98 0.1% 10PPM 5K RL



TE Part #3-1447221-3  
S/S REC CONTACT ASSY, AU, 0.75~1.25



TE Part #3-2176524-7  
3503G 2B 1K3 1% 1K RL



TE Part #ANT-GNRM-L15A-3  
Antenna GNSS L1L5 Ext Mag RG174 3M SMA

Documents

Product Drawings

2MM HM,TYPE A/B,HDR,ASY,146POS

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_5646534-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_5646534-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_5646534-1\_A.3d\_stp.zip

English

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Product Specifications

Application Specification

English