

5120779-1 ✓ ACTIVE

Z-PACK | Z-PACK 2mm HM

TE Internal #: 5120779-1

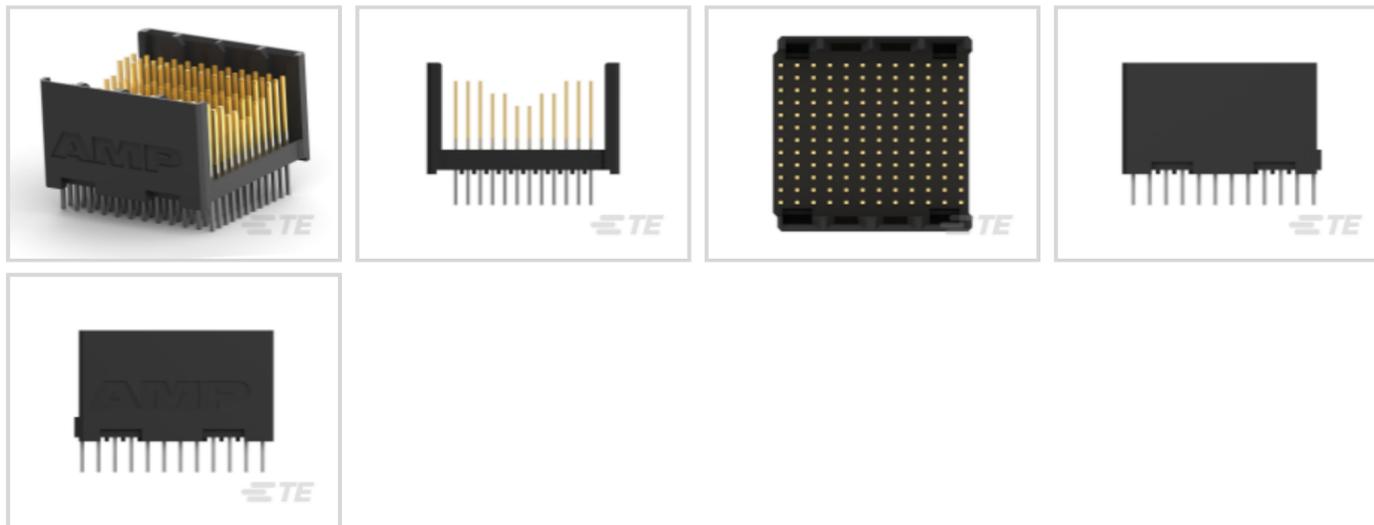
Hard Metric Backplane PCB Mount Header, ≤ 1 Gb/s, 12 Column,
12 Row, Mezzanine, 144 Position, 1.5 mm [.059 in] Centerline,
Vertical, Z-PACK 2mm HM

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

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



PCB Connector Type: **PCB Mount Header**

Data Rate: ≤ 1 Gb/s

Number of Columns: **12**

Number of Rows: **12**

Backplane Architecture: **Mezzanine**

[All Hard Metric Male Connector: Traditional Backplane, Mezzanine, 2mm \(123\)](#)

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 Header
Sealable	No

Configuration Features

Rows Loaded	Fully Loaded
Number of Columns	12
Number of Rows	12
Backplane Architecture	Mezzanine
Number of Positions	144
PCB Mount Orientation	Vertical



Signal Characteristics

Crosstalk Version	Reduced
Data Rate	≤1 Gb/s

Body Features

Primary Product Color	Black
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Contact Features

Contact Underplating Material	Nickel
Contact Mating Area Length	8.2 mm
Contact Base Material	Phosphor Bronze
CompactPCI Designation	None
PCB Contact Termination Area Plating Material	Tin
Feedthrough Post Length	3.7 mm
Contact Type	Pin
Contact Mating Area Plating Material	Nickel (Ni)
Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Contact Current Rating (Max)	.7 A

Termination Features

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

Connector Mounting Type	Board Mount
Front Mating Level	Level 2

Housing Features

Housing Material	Polyester GF
Centerline (Pitch)	1.5 mm[.059 in]

Dimensions

Backplane Module Length	23.9 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	20
Packaging Method	Tube

Product Compliance

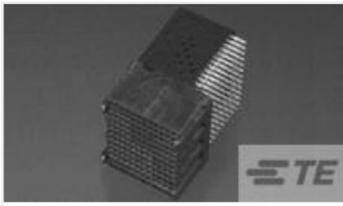
[For compliance documentation, visit the product page on TE.com>](#)

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

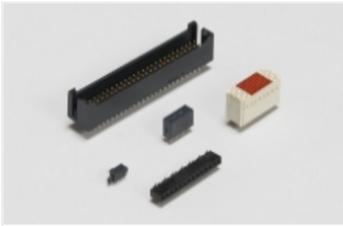
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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



TE Part # 5120637-1
12 ROW HM RA REC ASY 144P CTR

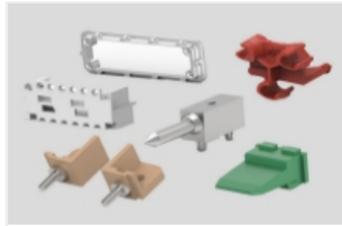
Also in the Series | Z-PACK 2mm HM



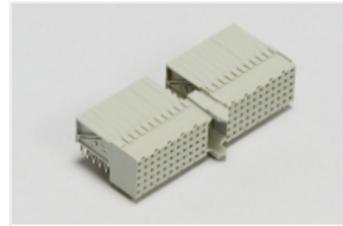
Board-to-Board Headers & Receptacles(46)



Connector Contacts(1)



Connector Hardware(91)



Hard Metric Backplane Connectors (264)



Power Contacts(1)

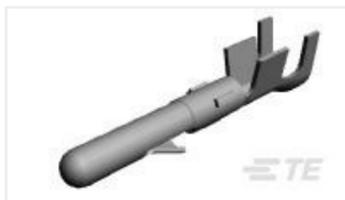


Rectangular Power Connectors(46)

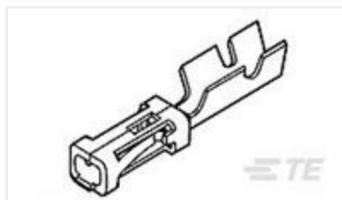
Customers Also Bought



TE Part #60617-6
CMNL SOK AUPHBZ L/P



TE Part #60618-6
CMNL PIN AUPHBZ L/P



TE Part #86016-1
MOD IV RECP LP



TE Part #323975
SPLICE, BUTT, PIDG, 24-20



TE Part #5-520314-8
TRIOMATE ASSY H 8P L=2.54 LDFR



TE Part #3-640432-2
02P MTA156 CONN ASSY 20AWG YEL



TE Part #640632-3
MTA .156 CONTACT BRNBR



TE Part #646274-1
2MM HM PIN PWR/GRD MODULE



Documents

Product Drawings

[2MMHM HDR ASY,12R SEL/LD 144 P](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_5120779-1_O.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_5120779-1_O.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_5120779-1_O.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English