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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

Product Type Features

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

Configuration Features

Rows Loaded	A, B, C, D, E
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

Body Features

Primary Product Color	Gray
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Contact Features

Feedthrough Post Length	3.7 mm
CompactPCI Designation	None
Contact Type	Socket
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	1.27 μm[50 μin]
Contact Current Rating (Max)	1.5 A

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	50 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	Power & Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Quantity	11
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Packaging Method	Tube
Other	
Backplane Connector Comment	Connector conforms to all testing according to IEC 61076-4-101, Performance Level 2.

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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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



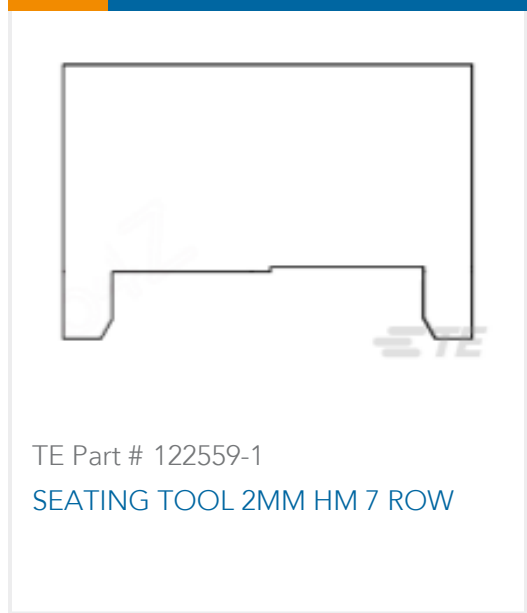
TE Part # CAT-472-Z12
Hard Metric Male Connector:
Traditional Backplane, Mezzanine,
2mm



TE Part # 5106014-1
Z-PACK/B RAMH.125P.



TE Part # 106138-2
Z-PACK/B SHRD.125P.



TE Part # 122559-1
SEATING TOOL 2MM HM 7 ROW



TE Part # 2392575-1
Z-PACK/B25 RAF 125P EON

TE Part # 5188647-1
Z-PACK/B M-HDR 125P

TE Part # 1645345-1
2mm H.M. Type "A" Pin Assy.

TE Part # 1857785-1
Z-PACK RA MALE CONN ASSY 125P

TE Part # 2170291-2
2MM H.M. TYPE "B" PIN ASSY.

TE Part # 2170314-2
Z-PACK B HEADER 125P

TE Part # 6345184-1
Z-PACK/B M-HDR 125P

TE Part # 6345185-1
Z-PACK/B M-HDR 125P

Also in the Series | Z-PACK 2mm HM

Backplane Coding Keys(60)

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Board-to-Board Connector Contacts(2)

Hard Metric Backplane Connectors
(269)

High Speed Backplane Connectors(1)

Insertion & Extraction Tools(2)

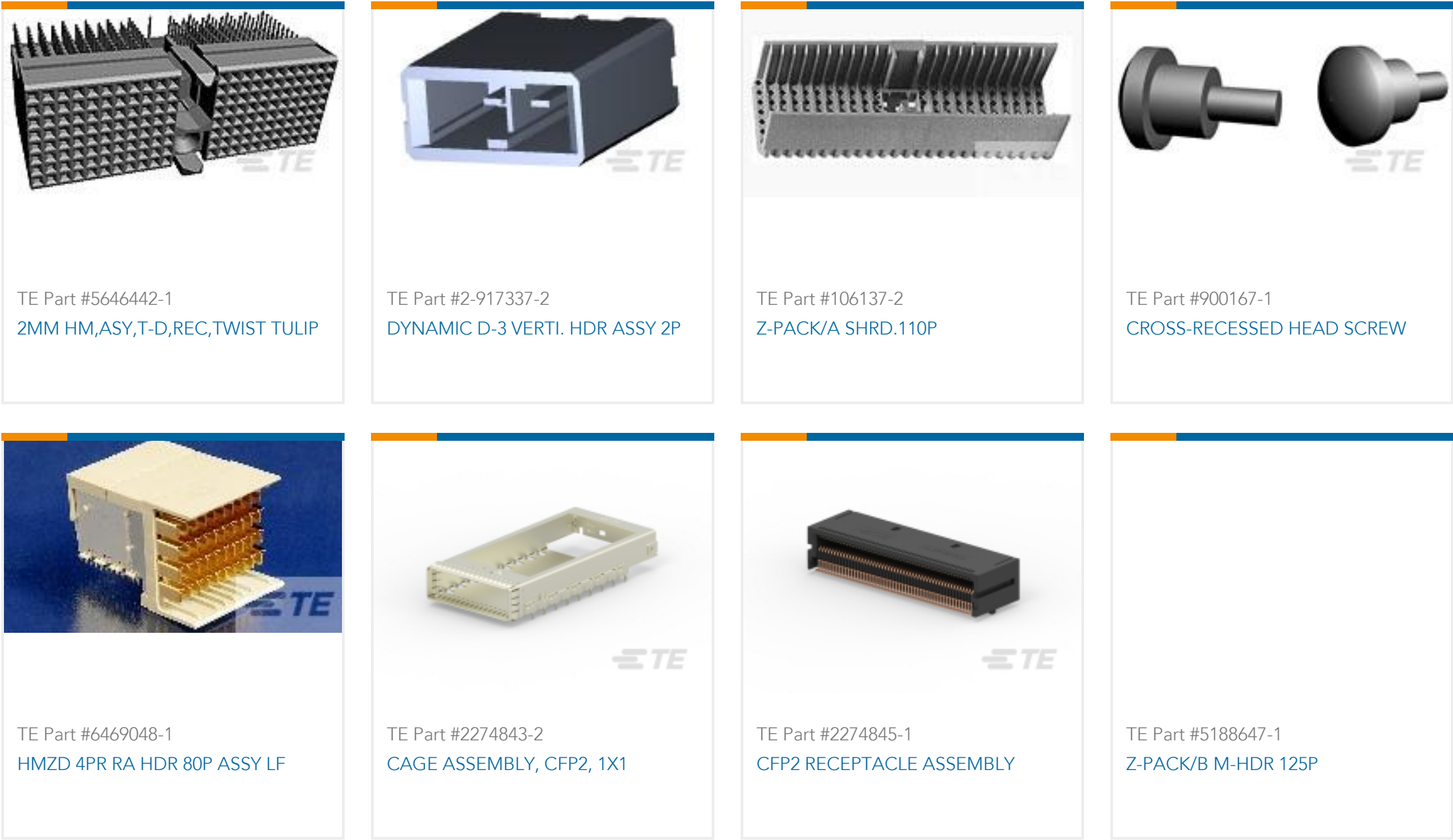
PCB Connector Covers(4)

PCB Connector Shrouds(39)

PCB Ferrules & Shields(19)

Rectangular Power Connectors(87)

Customers Also Bought



Documents

Product Drawings

Z-PACK/B25 RAF 125P

English

CAD Files

3D PDF

English

Customer View Model

ENG_CVM_5100145-1_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_5100145-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_5100145-1_B.3d_stp.zip

English

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Product Specifications

Application Specification

English

Product Environmental Compliance

MD_5100145-1_06122018440_dmtec

English

MD_5100145-1_06122018440_dmtec

English

5100145-1

Hard Metric Backplane Connectors, PCB Mount Receptacle, ≤1 Gb/s, 25 Column, 5 Row, Mezzanine, 125 Position, 2 mm [.078 in] Centerline, Z-PACK 2mm HM

