2042162-2 ✔ ACTIVE

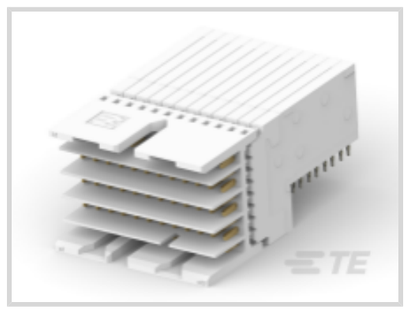
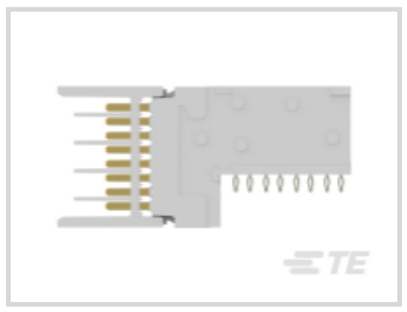
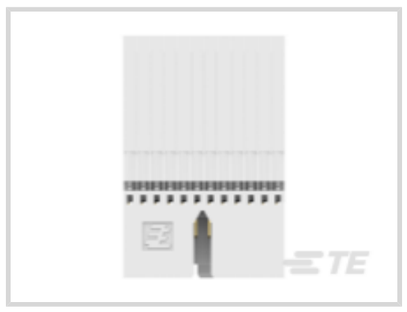
Z-PACK | Z-PACK Slim UHD

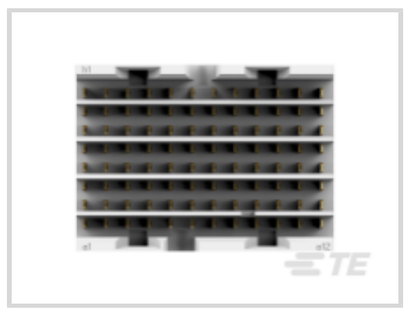
TE Internal #: 2042162-2

96 Position High Speed Backplane Connector, 8 Row, 12 Column, PCB Mount Header, Right Angle, Unshrouded, 1.45 mm [.057 in] Centerline, Z-PACK Slim UHD

View on TE.com >

Connectors > PCB Connectors > Backplane Connectors > High Speed Backplane Connectors



Number of Positions: **96**

Row-to-Row Spacing: **1.25 mm [.05 in]**

Mating Alignment: **With**

Mating Alignment Type: **Polarization**

Number of Rows: **8**

Features

Product Type Features

Connector & Contact Terminates To	Printed Circuit Board
Connector System	Board-to-Board
Backplane Module Type	Center
PCB Connector Type	PCB Mount Header
Shroud Style	Unshrouded

Configuration Features

Number of Pairs	48
Number of Signal Positions	96
Stackable	Yes
Pairs per Column	8
Number of Positions	96
Number of Rows	8
Number of Columns	12
PCB Mount Orientation	Right Angle

Electrical Characteristics

Operating Voltage	30 VAC
Impedance	30 Ω

Signal Characteristics

Data Rate	20 Gb/s

Body Features

Shield Material	Copper Alloy
Primary Product Color	Natural

Contact Features

Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material Thickness	.5 – 2.5 µm[20 – 100 µin]
Contact Shape & Form	Dual Beam
Contact Base Material	Copper Alloy
PCB Contact Termination Area Plating Material	Tin
Contact Type	Pin
Contact Current Rating (Max)	.5 A

Termination Features

Termination Method to PCB	Through Hole - Press-Fit
Termination Post & Tail Length	1.6 mm[.493 in]

Mechanical Attachment

Guide Hardware	Without
PCB Mount Retention	With
Mating Retention	Without
PCB Mount Retention Type	Action/Compliant Tail
PCB Mount Alignment	With
Mating Alignment	With
Mating Alignment Type	Polarization

Housing Features

Number of Shrouded Sides	0
End Wall Location	None
Housing Material	LCP
Centerline (Pitch)	1.45 mm[.057 in]

Dimensions

PCB Thickness (Recommended)	1.2 mm
Connector Width	12.51 mm[.493 in]
PCB Hole Diameter	.4 mm[.016 in]
Connector Height	9.5 mm[.374 in]
Connector Length	17.3 mm[.681 in]
Row-to-Row Spacing	1.25 mm[.05 in]

Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]

Operation/Application

Durability Rating	250 Cycles
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Tray

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 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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

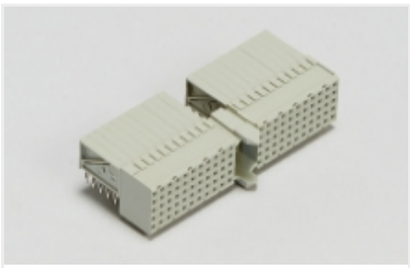


TE Part # 1982738-2
Female Connector IEC

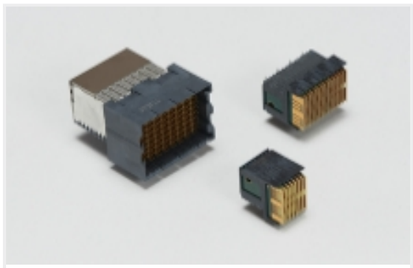


TE Part # 1857657-2
Female Connector

Also in the Series | Z-PACK Slim UHD



Hard Metric Backplane Connectors(2)

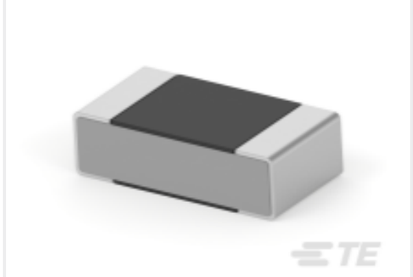


High Speed Backplane Connectors(12)

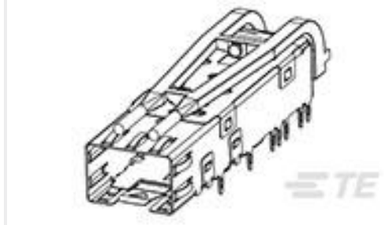
Customers Also Bought



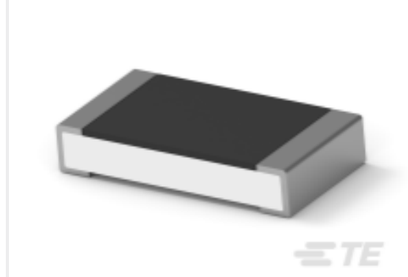
TE Part #1857657-2
Female Connector



TE Part #7-1879135-9
RN 0603 7R68 0.1% 10PPM 5K RL



TE Part #2170614-1
cage assy, 20 press fit, sfp w



TE Part #2176389-6
RQ 1206 121R 0.1% 10PPM 5K RL



TE Part #2227671-2
zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X3

TE Part #2316069-1
CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP



TE Part #5569350-1
MJ ASSY,3P,8 POS,R/A,CAT 5E

TE Part #2354329-1
CAGE ASSEMBLY, QSFP28, 1X2,ZIP HSK

TE Part #2-2354329-1
CAGE ASSY, QSFP28, 1X2,ZIP HSK, LP

TE Part #1-2386218-1
CAGE ASSEMBLY, QSFP112 1X2, SPRING, HS

Documents

Product Drawings

Right Angle Male Connector

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2042162-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2042162-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2042162-2_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

Agency Approvals

UL Report

English