

ZQSFP+ STACKED REC ASSEMBLY 2X1,HS

✓ ACTIVE

zQSFP+/QSFP28

TE Part # 2299940-2

TE Internal #: 2299940-2

[View on TE.com >](#)



Connectors > Pluggable IO Connectors & Cages > QSFP/QSFP+/zQSFP+



Form Factor: **zQSFP+**

Product Type: **Cage Assembly with Integrated Connector**

Port Matrix Configuration: **2 x 1**

EMI Containment Feature Type: **Internal/External EMI Springs**

Included Heat Sink: **Yes**

Features

Product Type Features

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Form Factor                       | zQSFP+                                  |
| Product Type                      | Cage Assembly with Integrated Connector |
| Included Heat Sink                | Yes                                     |
| Cage Type                         | Stacked                                 |
| Connector System                  | Cable-to-Board                          |
| Sealable                          | No                                      |
| Connector & Contact Terminates To | Printed Circuit Board                   |

Configuration Features

|                           |       |
|---------------------------|-------|
| Port Matrix Configuration | 2 x 1 |
| Number of Ports           | 2     |
| Rear EONs per Port Column | 3     |
| Number of Positions       | 76    |

Electrical Characteristics

|                 |         |
|-----------------|---------|
| Data Rate (Max) | 25 Gb/s |
|-----------------|---------|

Body Features



|                        |                  |
|------------------------|------------------|
| Heat Sink Finish       | Anodized Black   |
| Heat Sink Style        | Fin              |
| Heat Sink Height Class | Custom           |
| Heat Sink Height       | 6.77 mm[.266 in] |

Contact Features

|                                               |                |
|-----------------------------------------------|----------------|
| Contact Mating Area Plating Material          | Gold           |
| Contact Mating Area Plating Thickness         | 30 μm[.76 μin] |
| Contact Underplating Material                 | Tin            |
| PCB Contact Termination Area Plating Material | Gold           |
| Contact Current Rating (Max)                  | .5 A           |

Termination Features

|                                             |                          |
|---------------------------------------------|--------------------------|
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |
|---------------------------------------------|--------------------------|

Mechanical Attachment

|                         |             |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

Housing Features

|                    |                 |
|--------------------|-----------------|
| Cage Material      | Nickel Silver   |
| Centerline (Pitch) | .8 mm[.0315 in] |

Dimensions

|                             |                  |
|-----------------------------|------------------|
| Tail Length                 | 2 mm[.079 in]    |
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |

Usage Conditions

|                             |                           |
|-----------------------------|---------------------------|
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F] |
|-----------------------------|---------------------------|

Operation/Application

|                                     |                                                             |
|-------------------------------------|-------------------------------------------------------------|
| Heat Sink Compatible                | No                                                          |
| Pluggable I/O Applications          | Thermally Enhanced                                          |
| For Use With Pluggable I/O Products | QSFP28 Cable Assembly, QSFP28 MSA<br>Compatible Transceiver |
| Circuit Application                 | Signal                                                      |

Industry Standards

|                        |          |
|------------------------|----------|
| UL Flammability Rating | UL 94V-0 |
|------------------------|----------|

Packaging Features

|                  |            |
|------------------|------------|
| Packaging Method | Box & Tray |
|------------------|------------|



Other

|                              |                               |
|------------------------------|-------------------------------|
| EMI Containment Feature Type | Internal/External EMI Springs |
| Included Lightpipe           | No                            |
| Enhancements                 | Thermally Enhanced            |

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: JAN 2019 (197)<br>Candidate List Declared Against: JAN 2017 (173) |
| Halogen Content                               | Not Yet Reviewed for halogen content                                                           |
| 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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



TE Part # 2821309-7  
QSFP TO [2]QSFP, 28G, 1  
METER, 33AWG



TE Part # 2829040-2  
QSFP IB EDR, 33AWG, 1.0  
M



TE Part # 2829040-4  
QSFP IB EDR, 30AWG, 1.0  
M



TE Part # 2821309-2  
QSFP TO [2]QSFP, 28G, 2  
METER, 30AWG

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TE Part # 2299940-2  
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TE Part # 2821309-4  
QSFP TO [2]QSFP, 28G, 3  
METER, 30AWG

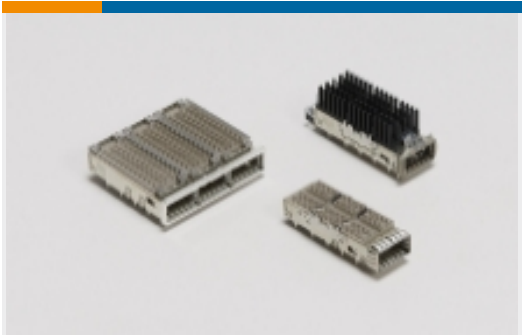


TE Part # 2829040-6  
QSFP IB EDR, 30AWG, 2.0  
M

Also in the Series | **zQSFP+/QSFP28**



Pluggable I/O Cable  
Assemblies(88)

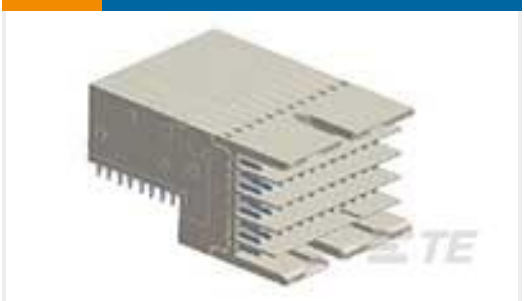


QSFP/QSFP+/zQSFP+(411)

Customers Also Bought



TE Part #5-1761617-5  
STEP-Z RCPT 05MM 296P  
LF ST



TE Part #2042162-1  
Right Angle Male  
Connector



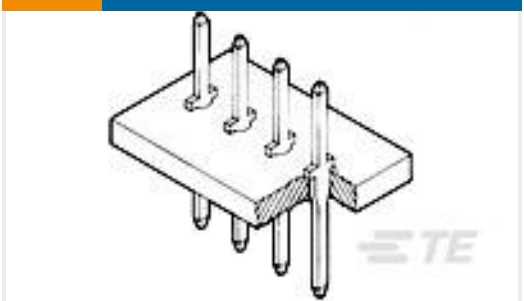
TE Part #1744426-9  
Header Housing Assy, EP  
2.5 RA, 9 Pos.



TE Part #1-1761617-5  
STEP-Z RCPT 15MM 296P  
PB ST



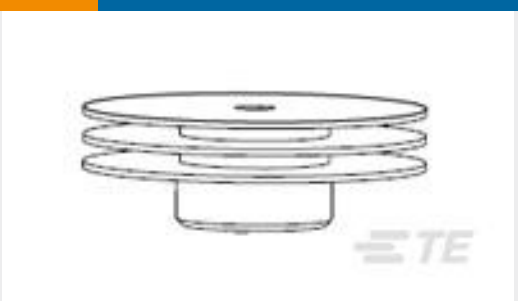
TE Part #1-1971818-4  
14P,RAST 2.5 Tab Header,  
Ex- Locking,THV



TE Part #1-86182-8  
MOD I POST LP



TE Part #2266958-1  
OCEAN\_2.0\_Applicator-S-  
100F160F



TE Part #4-1542004-4  
HTS754-U=25MM HS  
ASSY ULTEM CL



TE Part #5569252-1  
STK MJ ASSY,8POS,2X4,  
CAT5



TE Part #6-1761616-3  
STEP-Z PLUG 13MM 296P  
LF ST



Documents

Product Drawings

ZQSFP+ STACKED REC ASSEMBLY 2X1,HS

English

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CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2299940-2\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2299940-2\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2299940-2\_A.3d\_stp.zip

English

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Product Specifications

Application Specification

English