



zQSFP+/QSFP28

TE Internal #: 2227671-2

zQSFP+/QSFP28, QSFP/QSFP+/zQSFP+, Cage Assembly with Integrated Connector, Port Matrix Configuration 2 x 3, Internal /External EMI Springs

[View on TE.com >](#)

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



Pluggable I/O Product Type: **Cage Assembly with Integrated Connector**

Port Matrix Configuration: **2 x 3**

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

Included Lightpipe: **Yes**

Enhancements: **Standard**

Features

Product Type Features

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Form Factor                       | zQSFP+                                  |
| Cage Type                         | Stacked                                 |
| Pluggable I/O Product Type        | Cage Assembly with Integrated Connector |
| Connector System                  | Cable-to-Board                          |
| Sealable                          | No                                      |
| Connector & Contact Terminates To | Printed Circuit Board                   |

Configuration Features

|                                     |                         |
|-------------------------------------|-------------------------|
| Port Matrix Configuration           | 2 x 3                   |
| Number of Ports                     | 6                       |
| Lightpipe Configuration             | Outer Left Indicator Up |
| Number of Rear EONs per Port Column | 3                       |
| Number of Positions                 | 228                     |

Electrical Characteristics

|                 |         |
|-----------------|---------|
| Data Rate (Max) | 28 Gb/s |
|-----------------|---------|

Contact Features

|                                       |                |
|---------------------------------------|----------------|
| Contact Mating Area Plating Material  | Gold           |
| Contact Mating Area Plating Thickness | .76 µm[30 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[.032 in] |

Dimensions

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

Usage Conditions

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

Operation/Application

|                                     |                                                         |
|-------------------------------------|---------------------------------------------------------|
| Heat Sink Compatible                | No                                                      |
| For Use With Pluggable I/O Products | QSFP Cable Assembly, QSFP MSA<br>Compatible Transceiver |
| Pluggable I/O Applications          | SFP+ Stacked Belly-to-Belly                             |
| 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           | Yes                           |
| Enhancements                 | Standard                      |

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 2021 (211)<br>Candidate List Declared Against: JUL 2019 (201)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| Halogen Content                               | Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free                                              |
| Solder Process Capability                     | Not applicable for solder process capability                                                                                            |

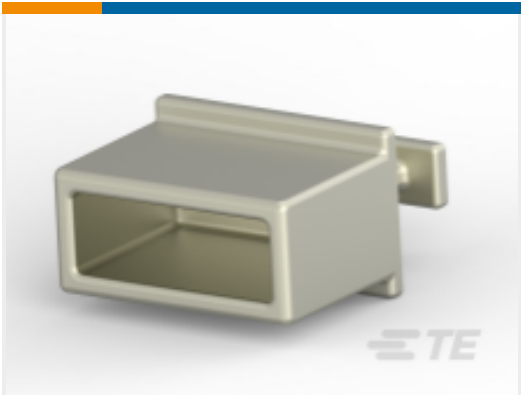
Product Compliance Disclaimer

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 # 1551920-2  
zQSFP+ connector assembly

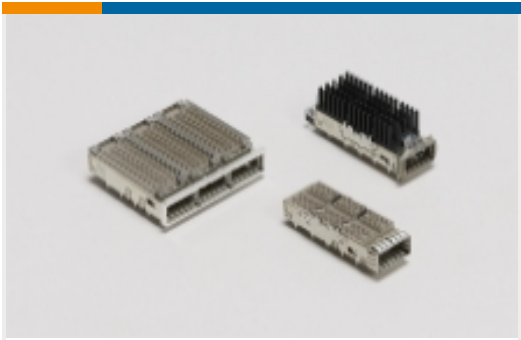


TE Part # 1888810-2  
EMI/Dust Cover,XFP And QSFP

Also in the Series | zQSFP+/QSFP28



Pluggable I/O Cable Assemblies(84)



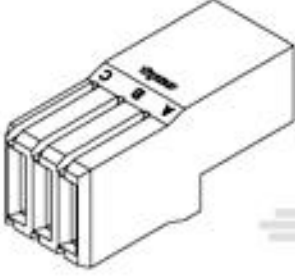
QSFP/QSFP+/zQSFP+(430)



Customers Also Bought



TE Part #1934229-1  
Tin Man Rectpt Assy 3 Pair16 Column



TE Part #120943-1  
UPM R/A REC HC 3P Power Connector



TE Part #1934226-1  
Tin man Rectpt Assy3pair8 Colum



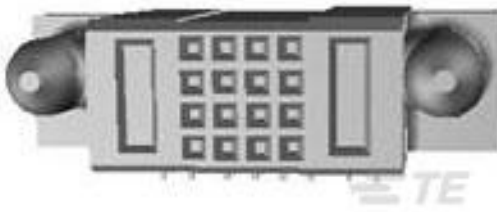
TE Part #2007132-1  
SFP+ 1X4 Cage Assembly, Press-



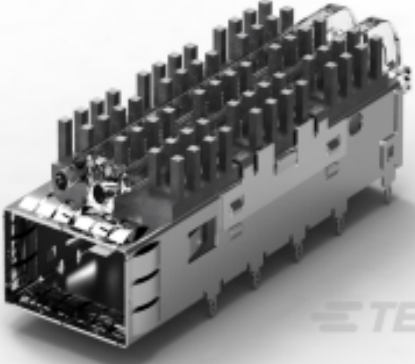
TE Part #1551920-2  
zQSFP+ connector assembly



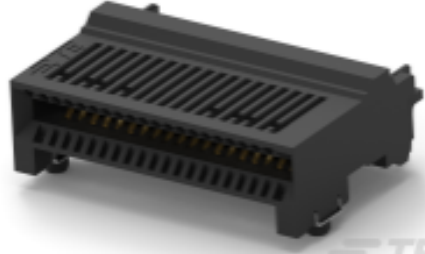
TE Part #2007717-1  
IMP100S,R,RA4P10C,UG,39



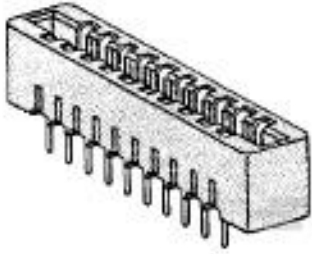
TE Part #1-6450360-2  
MBXL R/A RCPT 1P+16S+1P



TE Part #2-2170705-8  
CAGE ASSY, QSFP28 1X1, SPRING, HS, LP



TE Part #1551920-4  
zQSFP+ connector assembly



TE Part #7-530666-3  
CONN LOW PRO 12 POS 156X200C/

Documents

Product Drawings

zQSFP+ STACKED RECEPTACLE ASSEMBLY 2X3

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2227671-2\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2227671-2\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2227671-2\_A.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.



Datasheets & Catalog Pages

[QSFP28/56 and zQSFP+ Interconnects](#)

English

Product Specifications

[Application Specification](#)

English

Product Environmental Compliance

[MD\\_2227671-2\\_07192017132\\_dmtec](#)

English

[MD\\_2227671-2\\_07192017132\\_dmtec](#)

English