



zQSFP+/QSFP28

TE Internal #: 2170703-4  
QSFP28/56, Cage, Signal, Operating Temperature Range -40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 1 Ports, Port Matrix Configuration 1 x 1

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Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP28/56**  
Pluggable I/O Product Type: **Cage**  
Sealable: **No**  
Circuit Application: **Signal**  
Operating Temperature Range: **-40 – 85 °C [-40 – 185 °F]**

Features

Product Type Features

|                            |           |
|----------------------------|-----------|
| Cage Type                  | Single    |
| Form Factor                | QSFP28/56 |
| Pluggable I/O Product Type | Cage      |
| Sealable                   | No        |

Configuration Features

|                                     |       |
|-------------------------------------|-------|
| Number of Rear EONs per Port Column | 1     |
| Number of Ports                     | 1     |
| Port Matrix Configuration           | 1 x 1 |

Electrical Characteristics

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

Contact Features

|                                               |     |
|-----------------------------------------------|-----|
| PCB Contact Termination Area Plating Material | Tin |
|-----------------------------------------------|-----|

Termination Features

|                                |                          |
|--------------------------------|--------------------------|
| Termination Method to PCB      | Through Hole - Press-Fit |
| Termination Post & Tail Length | 2.05 mm[.081 in]         |

Housing Features

|               |               |
|---------------|---------------|
| Cage Material | Nickel Silver |
|---------------|---------------|



Dimensions

|                             |                  |
|-----------------------------|------------------|
| PCB Thickness (Recommended) | 1.57 mm[.062 in] |
|-----------------------------|------------------|

Usage Conditions

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

Operation/Application

|                            |                             |
|----------------------------|-----------------------------|
| Pluggable I/O Applications | SFP+ Stacked Belly-to-Belly |
| Heat Sink Compatible       | No                          |
| Circuit Application        | Signal                      |

Industry Standards

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

Packaging Features

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

Other

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

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 2025 (247)<br>Candidate List Declared Against: JAN 2025 (247)<br>Does not contain REACH SVHC |
| Halogen Content                               | Low Halogen - Br, Cl, F, I < 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

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Also in the Series | zQSFP+/QSFP28

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

Customers Also Bought



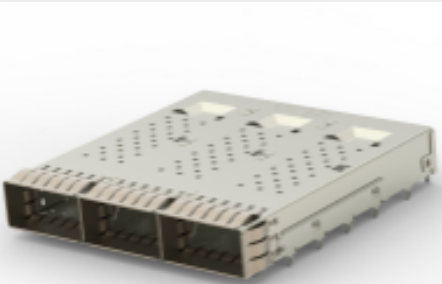
TE Part #5796055-1  
68 CHAMP R/A ASSY, LC



TE Part #5787973-1  
36 .8MM CHAMP RCPT ASSY



TE Part #CSJ-RGFB-100-MHF4  
RP-SMA to MHF4 100mm 0.81 OD



TE Part #2170737-1  
QSFP28, 1X3 CAGE ASSEMBLY, SPRING



TE Part #2057086-1  
SFP+ Enhanced 1x1 Cage Assembly



TE Part #5-1676480-0  
CRG0402 1% 330R

TE Part #2304468-2  
C/A, MBXL TO CCC INLET

TE Part #2335253-1  
72-4023-01

TE Part #4-2013310-3  
SEMI-HARD TRAY DDR3 204P 9.2H  
STD Au0.76

TE Part #2024540-1  
C/A, MIDPLANE TO FAN TRAY APEX  
18

Documents

Product Drawings

CAGE ASSEMBLY, QSFP28 1X1, SPRING

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2170703-4\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170703-4\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2170703-4\_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