



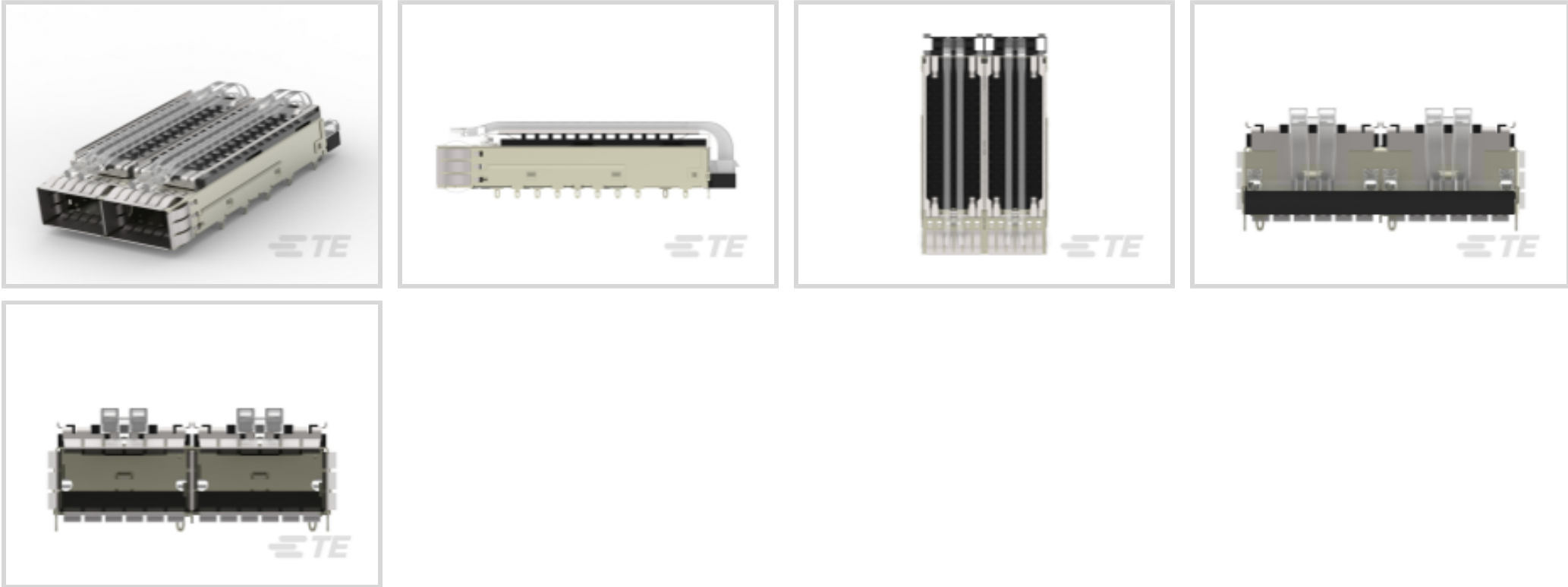
zQSFP+/QSFP28

TE Internal #: 2-2170808-1

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range  
-40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 2 Ports

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Connectors > Pluggable IO Connectors & Cages



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

Features

Product Type Features

|                                 |               |
|---------------------------------|---------------|
| Cage Type                       | Ganged        |
| Thermal Accessory Type Included | Heat Sink     |
| Form Factor                     | QSFP28/56     |
| Pluggable I/O Product Type      | Cage Assembly |
| Sealable                        | No            |

Configuration Features

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

Electrical Characteristics

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

Body Features

|                  |                |
|------------------|----------------|
| Heat Sink Style  | Pin            |
| Heat Sink Finish | Anodized Black |



|                        |                 |
|------------------------|-----------------|
| Heat Sink Height       | 4.2 mm[.165 in] |
| Heat Sink Height Class | PCI             |

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 |
| Circuit Application        | Signal                      |

Industry Standards

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

Packaging Features

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

Other

|                              |                               |
|------------------------------|-------------------------------|
| Included Lightpipe           | Yes                           |
| 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) |



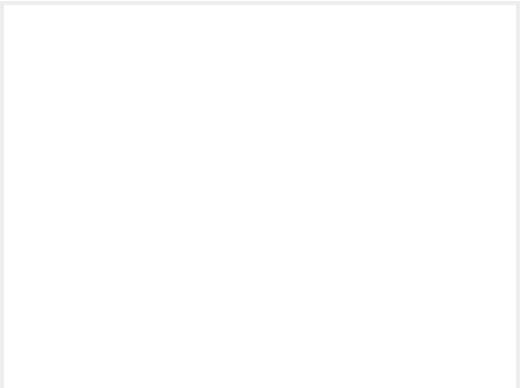
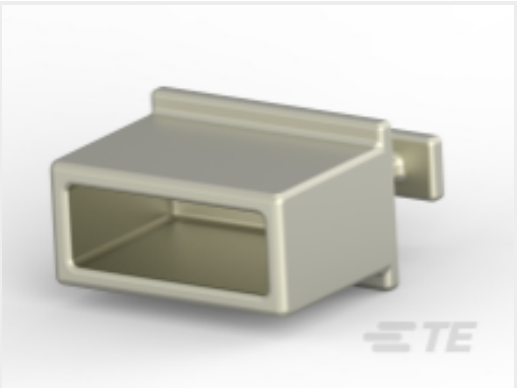
Candidate List Declared Against: JUNE 2024 (241)  
Does not contain REACH SVHC

|                           |                                                |
|---------------------------|------------------------------------------------|
| 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>

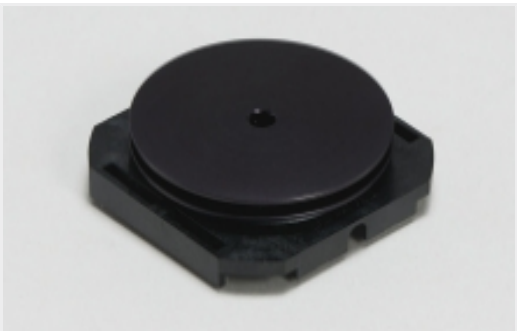
Compatible Parts

|                                                                                                                                                                      |                                                                                                                                                                       |                                                                                                                                                                         |                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>TE Part # CAT-C11-Z806726<br/>QSFP28 to QSFP28 Cable Assembly:<br/>30 AWG</p> |  <p>TE Part # CAT-Q17-N49011<br/>QSFP56-Four SFP56 Cable Assembly:<br/>30 AWG</p> |  <p>TE Part # 5-2215048-0<br/>ASSY, SEATING TL, QSFP28, 1X2</p>                    |  <p>TE Part # 1888810-2<br/>EMI/Dust Cover,XFP And QSFP</p>                       |
|  <p>TE Part # CAT-C11-Z8<br/>QSFP28 to QSFP28 Cable Assembly:<br/>26 AWG</p>      |  <p>TE Part # CAT-C11-Q17<br/>QSFP56 to QSFP56 Cable Assembly:<br/>26 AWG</p>     |  <p>TE Part # CAT-Q17-N49033<br/>QSFP56-Two QSFP56 Cable<br/>Assembly: 30 AWG</p>  |  <p>TE Part # CAT-C11-N490333<br/>QSFP28-Four SFP+ Cable Assembly:<br/>30 AWG</p> |
|  <p>TE Part # CAT-C11-N490325<br/>QSFP28-Four SFP+ Cable Assembly:<br/>26 AWG</p> |  <p>TE Part # CAT-C11-N49<br/>QSFP28-Two QSFP28 Cable<br/>Assembly: 30 AWG</p>    |  <p>TE Part # CAT-Q17-N490333<br/>QSFP56-Four SFP56 Cable Assembly:<br/>26 AWG</p> |  <p>TE Part # 1551920-2<br/>zQSFP+ connector assembly</p>                         |

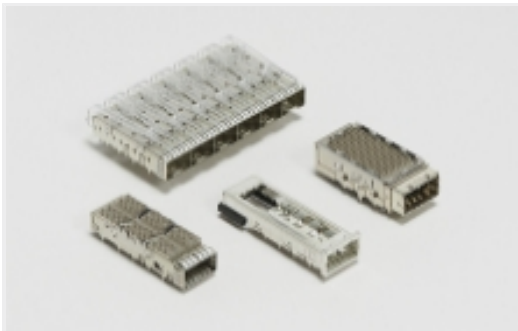


TE Part # CAT-Q17-N490325  
QSFP56 to QSFP56 Cable Assembly:  
30 AWG

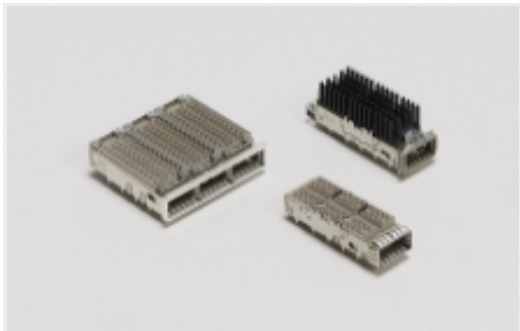
Also in the Series | **zQSFP+/QSFP28**



Heat Sinks(7)



Pluggable IO Connectors & Cages(424)



QSFP, QSFP+ & zQSFP+(424)

Customers Also Bought



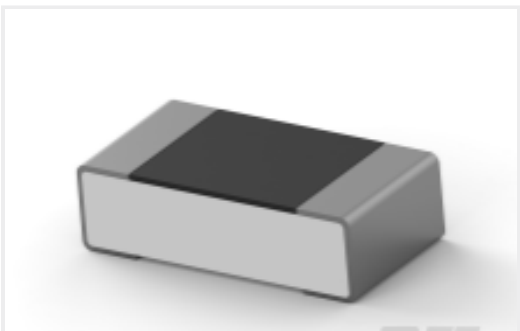
TE Part #1571634-2  
TACT,SMT,SOFT ACTUATOR,T&R



TE Part #6-1879208-2  
CPF 0402 3K6 0.1% 25PPM 1K RL



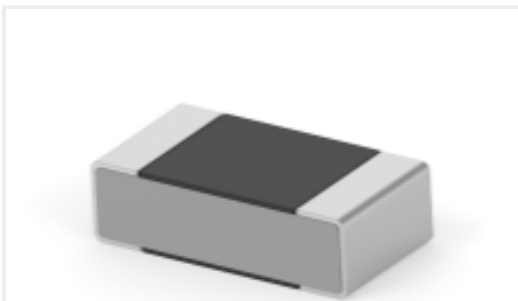
TE Part #7-1879135-3  
RN 0603 6R65 0.1% 10PPM 5K RL



TE Part #4-2176369-3  
RQ 0603 110R 0.1% 10PPM 5K RL



TE Part #5660014001  
SFR-1/4-0-SP



TE Part #8-1879135-7  
RN 0603 9R31 0.1% 10PPM 5K RL



TE Part #1-2176325-4  
CRGP 0402 120R 1%



TE Part #7-1879337-2  
CPF 0603 13K7 1% 50PPM 1K RL



TE Part #2-1879461-2  
RL73H 2A R10 1% 1K RL



TE Part #2-2176343-6  
CRGCQ 1206 1K2 1%



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-2170808-1\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-2170808-1\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-2170808-1\_A.3d\_stp.zip

English

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Product Specifications

Product Specification

English