



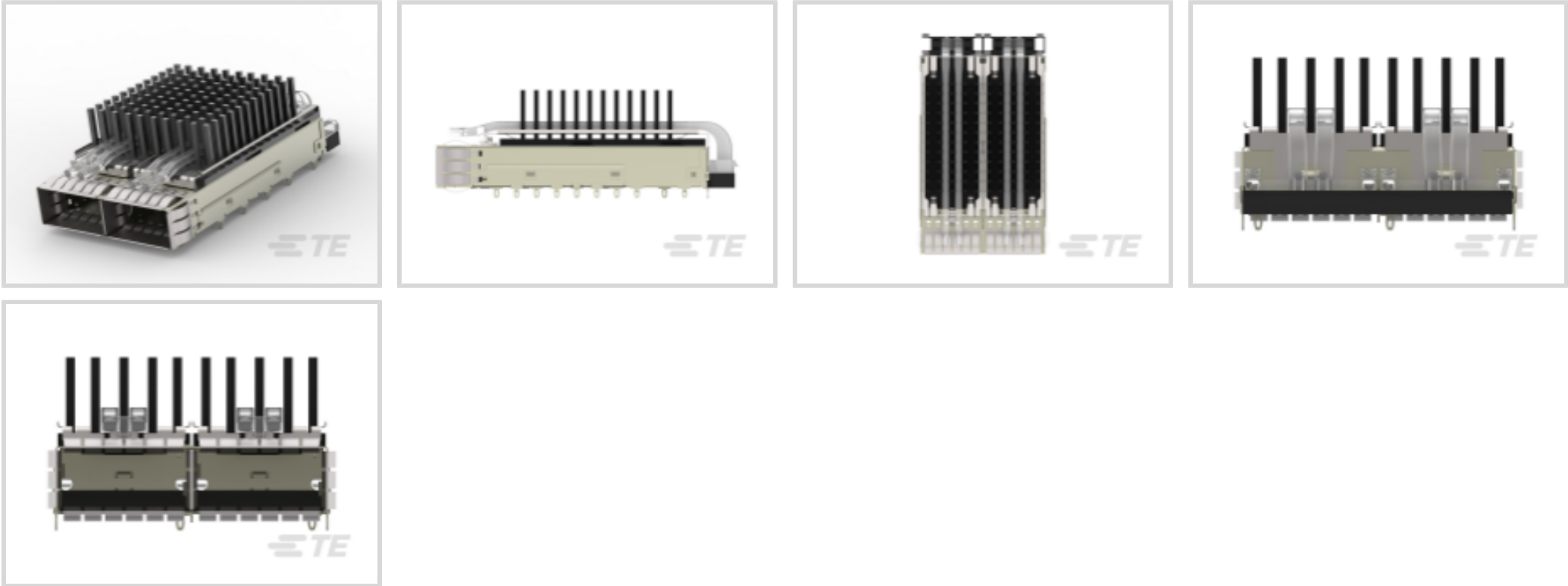
zQSFP+/QSFP28

TE Internal #: 2-2170808-6

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

[View on TE.com >](#)

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

Industry Standards

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

Termination Features

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

Dimensions

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

Contact Features

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

Housing Features

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

Body Features

|                  |                  |
|------------------|------------------|
| Heat Sink Style  | Pin              |
| Heat Sink Finish | Anodized Black   |
| Heat Sink Height | 13.5 mm[.531 in] |



|                                                                 |                                         |
|-----------------------------------------------------------------|-----------------------------------------|
| Heat Sink Height Class                                          | Networking                              |
| Packaging Features                                              |                                         |
| Packaging Method                                                | Box & Tray                              |
| Configuration Features                                          |                                         |
| Number of Rear EONs per Port Column                             | 0                                       |
| Number of Ports                                                 | 2                                       |
| Port Matrix Configuration                                       | 1 x 2                                   |
| Operation/Application                                           |                                         |
| Pluggable I/O Applications                                      | SFP+ Stacked Belly-to-Belly             |
| Circuit Application                                             | Signal                                  |
| 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                                      |
| Electrical Characteristics                                      |                                         |
| Data Rate (Max)                                                 | 28 Gb/s                                 |
| Usage Conditions                                                |                                         |
| Operating Temperature Range                                     | -40 – 85 °C[-40 – 185 °F]               |
| Other                                                           |                                         |
| Included Lightpipe                                              | Yes                                     |
| EMI Containment Feature Type                                    | Internal/External EMI Springs           |
| EU RoHS Compliance                                              | Compliant                               |
| EU ELV Compliance                                               | Compliant                               |
| 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 2024 (241)  
Candidate List Declared Against: JUNE 2024 (241)  
Does not contain REACH SVHC

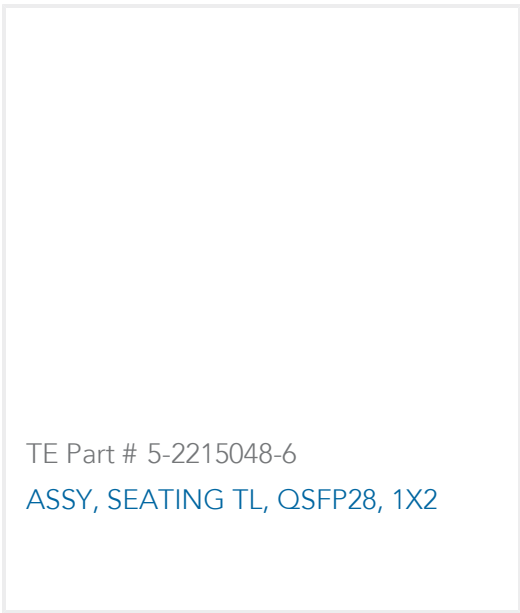
|                 |                                                |
|-----------------|------------------------------------------------|
| Halogen Content | Not Low Halogen - contains Br or Cl > 900 ppm. |
|-----------------|------------------------------------------------|

|                           |                                              |
|---------------------------|----------------------------------------------|
| 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 # 5-2215048-6<br/>ASSY, SEATING TL, QSFP28, 1X2</p> |  <p>TE Part # CAT-Q17-N49011<br/>QSFP56-Four SFP56 Cable Assembly:<br/>30 AWG</p> |  <p>TE Part # CAT-C11-Z806726<br/>QSFP28 to QSFP28 Cable Assembly:<br/>30 AWG</p> |  <p>TE Part # CAT-C11-Q17<br/>QSFP56 to QSFP56 Cable Assembly:<br/>26 AWG</p> |
|  <p>TE Part # 1888810-2<br/>EMI/Dust Cover,XFP And QSFP</p>     |  <p>TE Part # CAT-Q17-N49033<br/>QSFP56-Two QSFP56 Cable<br/>Assembly: 30 AWG</p> |  <p>TE Part # CAT-C11-Z8<br/>QSFP28 to QSFP28 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

TE Part # CAT-C11-N49  
QSFP28-Two QSFP28 Cable  
Assembly: 30 AWG

TE Part # CAT-C11-N490333  
QSFP28-Four SFP+ Cable Assembly:  
30 AWG

TE Part # CAT-Q17-N490333  
QSFP56-Four SFP56 Cable Assembly:  
26 AWG

TE Part # CAT-C11-N490325  
QSFP28-Four SFP+ Cable Assembly:  
26 AWG

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

Heat Sinks(7)

Pluggable I/O Cable Assemblies(78)

Pluggable IO Connectors & Cages(424)

Customers Also Bought

TE Part #DT04-2P  
REC, 2P, GRY, N

TE Part #DT06-2S  
PLG, 2P, GRY, N

TE Part #CAT-D487-W416  
Wedgelocks: DEUTSCH DT

TE Part #CAT-D48-ST273  
DEUTSCH Solid Contacts

TE Part #CAT-AM71-CH8172  
AMP SUPERSEAL 1.5MM,  
CONNECTOR HOUSING

TE Part #281934-2  
SINGLE WIRE SEAL



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2-2170808-6\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-2170808-6\_A.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_2-2170808-6\_A.3d\_stp.zip

English

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

Product Specifications

Product Specification

English