



Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP28/56**  
Pluggable I/O Product Type: **Cage**  
Sealable: **Yes**  
Circuit Application: **Signal**  
Operating Temperature Range: **-40 – 85 °C [-40 – 185 °F]**

Features

Product Type Features

|                            |           |
|----------------------------|-----------|
| Cage Type                  | Ganged    |
| Form Factor                | QSFP28/56 |
| Pluggable I/O Product Type | Cage      |
| Sealable                   | Yes       |

Configuration Features

|                                     |       |
|-------------------------------------|-------|
| Number of Rear EONs per Port Column | 2     |
| 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 | Elastomeric Gasket |

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: JUNE 2024 (241)<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

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

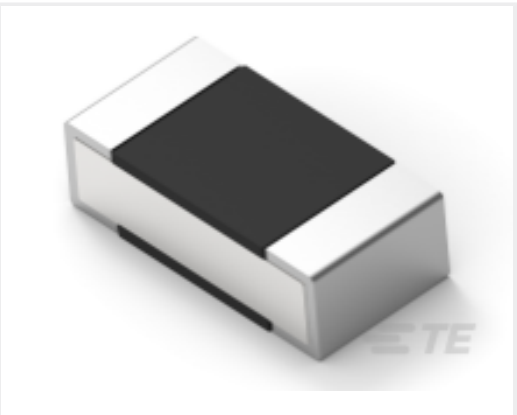
Customers Also Bought



TE Part #1546306-4  
[4P .374" DR BARRIER STRIP](#)



TE Part #1-206070-1  
[CABLE CLAMP KIT #17](#)



TE Part #5-2176304-6  
[RP 1E 0.1W 37R4 0.1% 25PPM 5K RL](#)



TE Part #5748476-1  
[KIT,PLUG,62P,HDP-22,SHLD ENCLS](#)



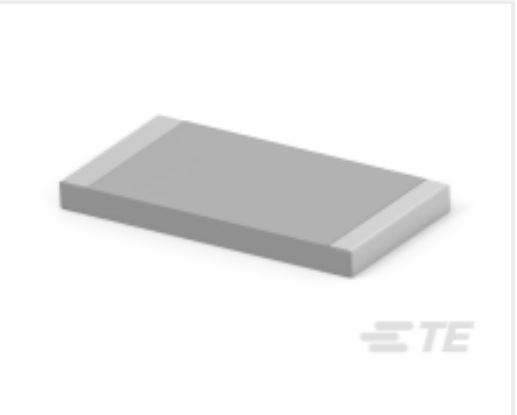
TE Part #5748677-5  
[PLTD PLST CBL CLMP KIT,SZ 5](#)



TE Part #206426-1  
[CPC PLUG ASSEMBLY SIZE 17-3](#)



TE Part #2828431-1  
[NanoRF Daughtercard Module 8 POS SS](#)



TE Part #2-2176331-5  
[CRGP 2512 1K0 1%](#)



TE Part #175152-2  
[AMP UNIVE. POWER CONN REC CONT](#)



TE Part #A63971-000  
[101A031-3-05-0](#)

Documents

CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2170752-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2170752-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2170752-1\\_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