

2170703-1 ✓ ACTIVE

zQSFP+/QSFP28

TE Internal #: 2170703-1

QSFP28/56, Cage, Signal, Operating Temperature Range -55 – 105 °

C [-67 – 221 °F], Data Rate (Max) 28 Gb/s, 1 Ports, Port Matrix

Configuration 1 x 1

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Connectors > Pluggable IO Connectors & Cages



Pluggable I/O Product Type: **Cage**

Sealable: **No**

Circuit Application: **Signal**

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

Data Rate (Max): **28 Gb/s**

Features

Product Type Features

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

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

Housing Features

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



Dimensions

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

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -55 – 105 °C[-67 – 221 °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: JUNE 2024 (241) Candidate List Declared Against: JAN 2023 (233) 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>

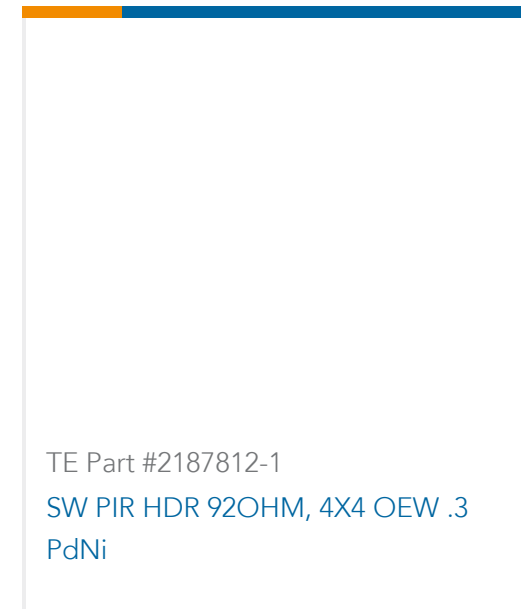
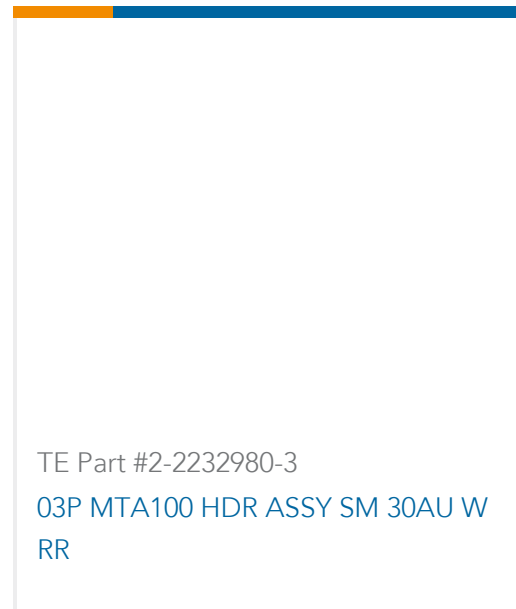
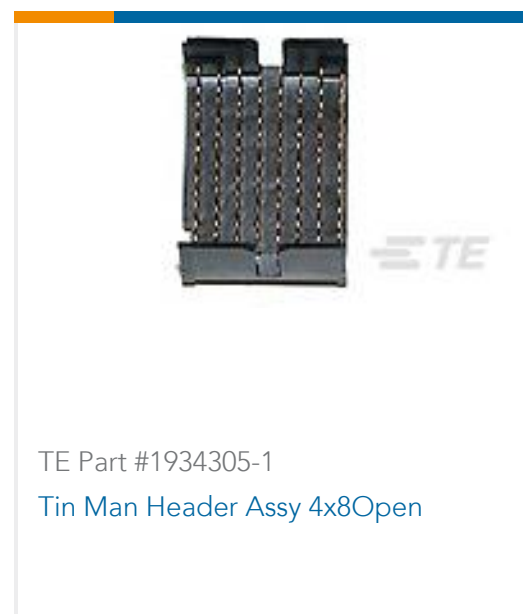
Compatible Parts

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

Also in the Series | zQSFP+/QSFP28

| | | |
|----------------------|---|---|
| <p>Heat Sinks(7)</p> | <p>Pluggable I/O Cable Assemblies(78)</p> | <p>Pluggable IO Connectors & Cages(424)</p> |
|----------------------|---|---|

Customers Also Bought



Documents

Product Drawings

[CAGE ASSEMBLY, QSFP28 1X1, SPRING](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2170703-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170703-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170703-1_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