

4-2170754-5 ✓ ACTIVE

zQSFP+/QSFP28

TE Internal #: 4-2170754-5

QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 1, Elastomeric Gasket, Included Lightpipe, Standard, Data Rate (Max) 28 Gb/s, 1 Port, zQSFP+/QSFP28

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Connectors > Pluggable IO Connectors & Cages > QSFP, QSFP+ & zQSPF+



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

Port Matrix Configuration: **1 x 1**

EMI Containment Feature Type: **Elastomeric Gasket**

Thermal Accessory Type Included: **Heat Sink**

Included Lightpipe: **Yes**

Features

Product Type Features

| | |
|-----------------------------------|-----------------------|
| Form Factor | QSFP28/56 |
| Cage Type | Ganged |
| Pluggable I/O Product Type | Cage Assembly |
| Thermal Accessory Type Included | Heat Sink |
| Connector System | Cable-to-Board |
| Sealable | Yes |
| Connector & Contact Terminates To | Printed Circuit Board |

Configuration Features

| | |
|-------------------------------------|------------|
| Port Matrix Configuration | 1 x 1 |
| Number of Ports | 1 |
| Lightpipe Configuration | Quad Round |
| Number of Rear EONs per Port Column | 0 |

Electrical Characteristics

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

Body Features

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



| | |
|------------------------|-----|
| Heat Sink Height Class | SAN |
|------------------------|-----|

| | |
|------------------|-----------------|
| Heat Sink Height | 6.5 mm[.256 in] |
|------------------|-----------------|

Contact Features

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

Termination Features

| | |
|--------------------------------|------------------|
| Termination Post & Tail Length | 2.05 mm[.081 in] |
|--------------------------------|------------------|

| | |
|---|--------------------------|
| Termination Method to Printed Circuit Board | Through Hole - Press-Fit |
|---|--------------------------|

Mechanical Attachment

| | |
|-------------------------|-------------|
| Connector Mounting Type | Board Mount |
|-------------------------|-------------|

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

| | |
|----------------------|-----|
| Heat Sink Compatible | Yes |
|----------------------|-----|

| | |
|-------------------------------------|--|
| For Use With Pluggable I/O Products | QSFP28 Cable Assembly, QSFP28 MSA Compatible Transceiver |
|-------------------------------------|--|

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

| | |
|------------------------------|--------------------|
| EMI Containment Feature Type | Elastomeric Gasket |
|------------------------------|--------------------|

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

| | |
|--------------|----------|
| Enhancements | Standard |
|--------------|----------|

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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 2023 (235) Candidate List Declared Against: JUNE 2022 (224) 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



TE Part # CAT-C11-Z806726
 QSFP28 to QSFP28 Cable Assembly:
 30 AWG



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



TE Part # CAT-C11-Z8
 QSFP28 to QSFP28 Cable Assembly:
 26 AWG



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




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



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



TE Part # CAT-Q17-N49033
QSFP56-Two QSFP56 Cable
Assembly: 30 AWG



TE Part # CAT-C11-Q17
QSFP56 to QSFP56 Cable Assembly:
26 AWG



TE Part # CAT-Q17-N49011
QSFP56-Four SFP56 Cable Assembly:
30 AWG



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



TE Part # 1551920-2
zQSFP+ connector assembly



TE Part # 1888810-2
EMI/Dust Cover,XFP And QSFP



TE Part # 2215047-7
ASSY, STG TL, QSFP28 LP,1X1

Also in the Series | [zQSFP+/QSFP28](#)



Pluggable I/O Cable Assemblies(81)



QSFP, QSFP+ & zQSFP+(432)

Customers Also Bought



TE Part #2170872-1
Z-PACK TYPE/C MALE HDR 55P



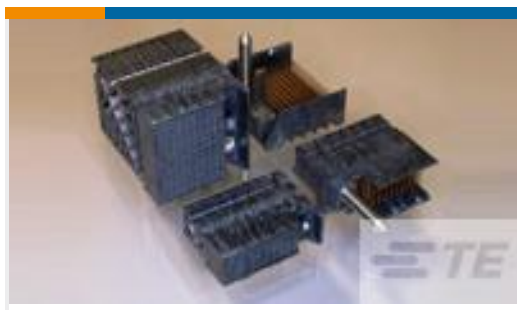
TE Part #1934937-1
Tinman 5pr 10col open hdr assy



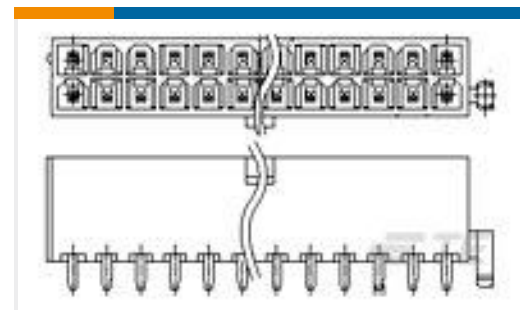
TE Part #2-1734774-1
PCI EXP 3.1L 98 POS WHT 30u"



TE Part #2007850-1
IMP100S,H,V5P10C,UG,DEW46,4.5



TE Part #2132423-1
IMP100O,R,RA3P6C,RG,39



TE Part #3-1775099-2
ATX PWR CONN 1 BDLK 8 POS



TE Part #5-2170790-4
CAGE ASSY, 1X4, QSFP28, SPRING,
HS, LP



TE Part #6-1658043-2
MSB0.80RC-ASY080FL,GP,F,-TR



TE Part #6450834-1
MBXL R/A HDR STR 1P/8S/1P



TE Part #2-2204910-5
MBXLE R/A HEADER 4HDP + 92S +
4HDP

Documents

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_4-2170754-5_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_4-2170754-5_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_4-2170754-5_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

Product Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English