



**zQSFP+/QSFP28**

TE Internal #: 2170703-2

QSFP, QSFP+ & zQSFP+, Cage, 1 x 1, Internal/External EMI Springs, Standard, Data Rate (Max) 28 Gb/s, 1 Port, zQSFP+/QSFP28

[View on TE.com >](#)

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



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

Port Matrix Configuration: **1 x 1**

EMI Containment Feature Type: **Internal/External EMI Springs**

Included Lightpipe: **No**

Enhancements: **Standard**

**Features**

**Product Type Features**

Form Factor	QSFP28/56
Cage Type	Single
Pluggable I/O Product Type	Cage
Connector System	Cable-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

**Configuration Features**

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

**Electrical Characteristics**

Data Rate (Max)	28 Gb/s
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**Contact Features**

PCB Contact Termination Area Plating Material	Tin
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**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
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### Housing Features

Cage Material	Nickel Silver
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### Dimensions

PCB Thickness (Recommended)	1.57 mm[.062 in]
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### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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### 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
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### Packaging Features

Packaging Method	Box & Tray
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### Other

EMI Containment Feature Type	Internal/External EMI Springs
Included Lightpipe	No
Enhancements	Standard

### 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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per

homogenous material. Also BFR/CFR/PVC Free











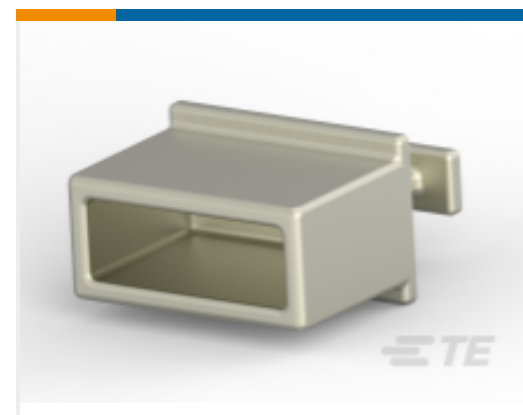

Solder Process Capability

Not applicable for solder process capability

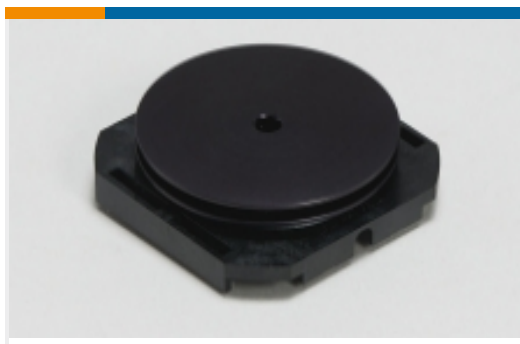
Product Compliance Disclaimer

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>

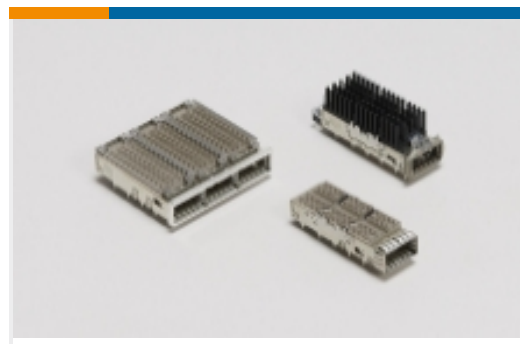
Also in the Series | [zQSFP+/QSFP28](#)



Heat Sinks(1)



Pluggable I/O Cable Assemblies(81)



QSFP, QSFP+ & zQSFP+(425)

## Customers Also Bought



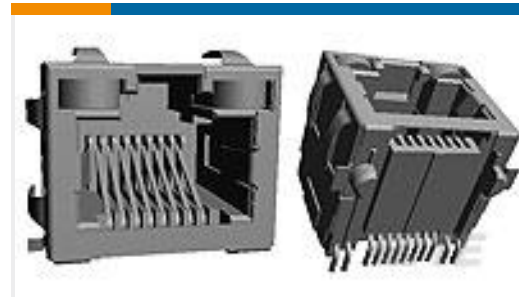
TE Part #5747847-4  
37 MSFL RCPT RA 318 (IN,FM,BL)



TE Part #1888247-1  
20 POS SMT CONN, SFP/SFP+, 30A



TE Part #2057631-1  
CFP Receptacle Cover Assy



TE Part #6339160-1  
MJ,RJ45,SMT,SHLD,PANEL GRD



TE Part #A35215-000  
D-SCE-1K-3.2-50-S1-9



TE Part #2169834-1  
STRADA Whisper, Guide Pin PL,



TE Part #2170447-1  
SFP+ 1x4 Cage Assy, with Heatsink



TE Part #2299324-1  
QSFP28, 1X2, CAGE ASSY, SPRING, HS



TE Part #4620053001  
ZHPCG-35-16-0CK0042

## Documents

### Product Drawings

CAGE ASSEMBLY, QSFP28 1X1, SPRING

English

### CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_2170703-2\_A.2d\_dxf.zip



English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2170703-2\\_A.3d\\_igs.zip](#)

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**Customer View Model**

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English

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**Datasheets & Catalog Pages**

[QSFP28/56 and zQSFP+ Interconnects](#)

English

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**Product Specifications**

[Application Specification](#)

English

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**Product Environmental Compliance**

[MD\\_2170703-2\\_05302017238\\_dmtec](#)

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