

CAGE ASSY, QSFP28 1X1, SPRING, HS

✓ ACTIVE

zQSFP+/QSFP28

TE Part # 2170704-4

TE Internal #: 2170704-4

[View on TE.com >](#)



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



Form Factor: **QSFP28/56**

Product Type: **Cage Assembly**

Port Matrix Configuration: **1 x 1**

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

Included Heat Sink: **Yes**

Features

Product Type Features

Form Factor	QSFP28/56
Product Type	Cage Assembly
Included Heat Sink	Yes
Cage Type	Single
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
Rear EONs per Port Column	0

Electrical Characteristics

Data Rate (Max)	28 Gb/s
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Body Features

Heat Sink Finish	Anodized Black
Heat Sink Style	Pin
Heat Sink Height Class	PCI
Heat Sink Height	4.2 mm[.165 in]



Contact Features

PCB Contact Termination Area Plating Material	Tin
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Termination Features

Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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Mechanical Attachment

Connector Mounting Type	Board Mount
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Housing Features

Cage Material	Nickel Silver
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Dimensions

Tail Length	2.05 mm[.081 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]

Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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Operation/Application

Heat Sink Compatible	Yes
Pluggable I/O Applications	Standard
For Use With Pluggable I/O Products	QSFP28 Cable Assembly, QSFP28 MSA Compatible Transceiver
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: JAN 2019 (197) Candidate List Declared Against: DEC 2014 (161)
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

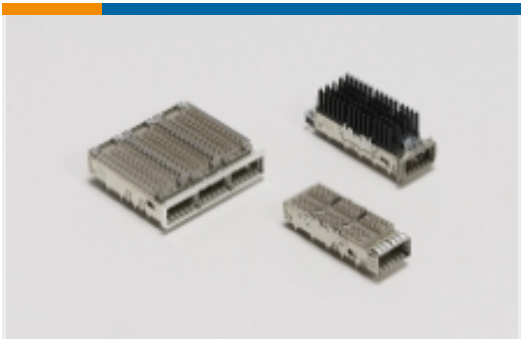
Product Compliance Disclaimer

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 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



Pluggable I/O Cable Assemblies(23)



QSFP/QSFP+/zQSFP+(1)

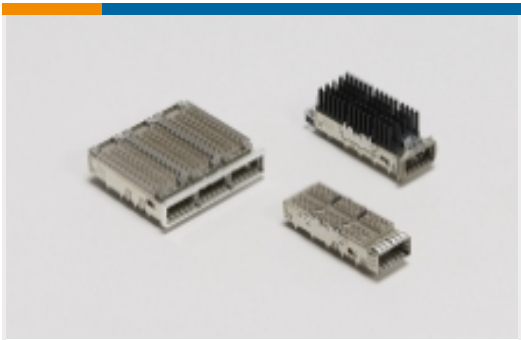


XFP(1)

Also in the Series | zQSFP+/QSFP28





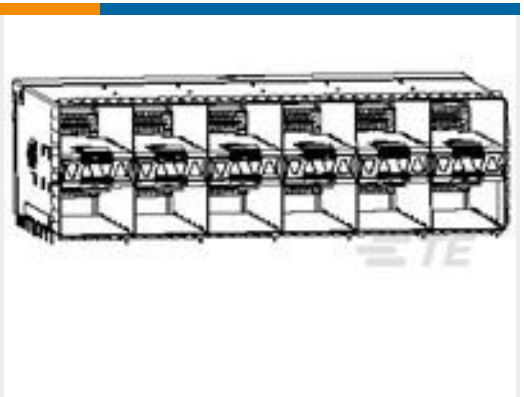






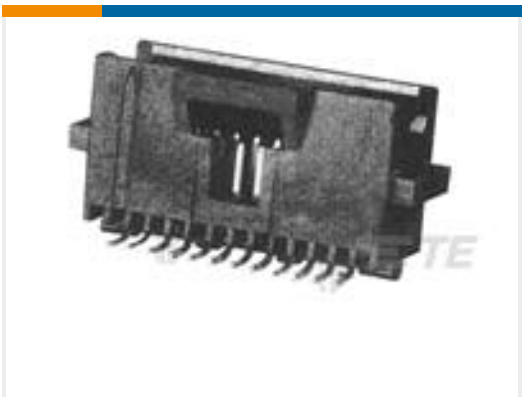
Pluggable I/O Cable Assemblies(88)



QSFP/QSFP+/zQSFP+(411)



Customers Also Bought

 <p>TE Part #1734099-6 Champ 050 series,plug assembly</p>	 <p>TE Part #2007194-2 SFP+ 1x1 Cage Assembly, PCI, Solder Tail</p>	 <p>TE Part #2198339-6 zSFP+ STACKED 2X6 RECEPTACLE ASSEMBLY</p>	 <p>TE Part #2299940-3 ZQSFP+ STACKED REC ASSEMBLY 2X1,HS</p>
 <p>TE Part #2170704-6 CAGE ASSY, QSFP28 1X1, SPRING, HS</p>	 <p>TE Part #2170806-4 CAGE ASSEMBLY, 1X2, QSFP28, SPRING, HS</p>	 <p>TE Part #2308107-7 DDR4 DIMM 288 PIN TH TYPE</p>	 <p>TE Part #5-1879129-9 RN 0402 1K91 0.1% 10PPM 1K RL</p>
 <p>TE Part #5120874-1 HS3 10 ROW RECEPTACLE ASSY W/M</p>	 <p>TE Part #6-104549-1 12 SYS50 S/M HDR DRST SHRDSN</p>		

Documents

Product Drawings

CAGE ASSY, QSFP28 1X1, SPRING, HS

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2170704-4_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2170704-4_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2170704-4_A.3d_stp.zip

English



Datasheets & Catalog Pages
QSFP28/56 and zQSFP+ Interconnects
English

Product Specifications
Application Specification
English

Product Environmental Compliance
TE Material Declaration
English