

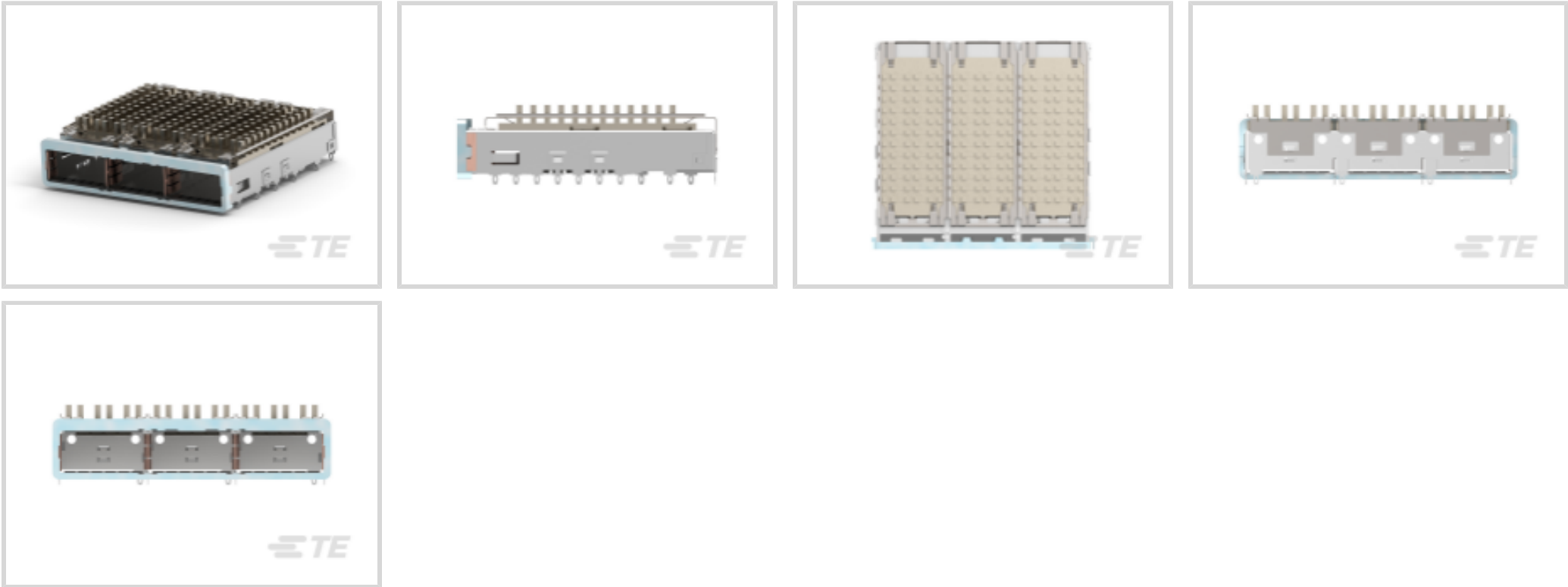


zQSFP+/QSFP28

TE Internal #: 2173239-1
QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 3, Customer Applied
Gasket, Standard, Data Rate (Max) 25 Gb/s, 3 Port, Pin, zQSFP+
/QSFP28

[View on TE.com >](#)

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



Pluggable I/O Product Type: **Cage Assembly**
Port Matrix Configuration: **1 x 3**
EMI Containment Feature Type: **Customer Applied Gasket**
Thermal Accessory Type Included: **Heat Sink**
Included Lightpipe: **No**

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	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Port Matrix Configuration	1 x 3
Number of Ports	3
Number of Rear EONs per Port Column	1

Electrical Characteristics

Data Rate (Max)	25 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 Post & Tail Length	2.2 mm[.086 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)	1.45 mm[.057 in]
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Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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Operation/Application

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	Customer Applied Gasket
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 2022 (224) Candidate List Declared Against: JUN 2013 (144) SVHC > Threshold: Not Yet Reviewed
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



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



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











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


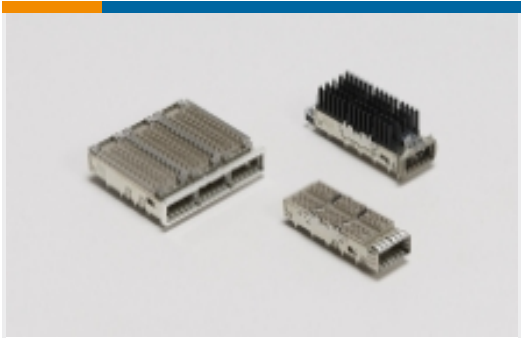


TE Part # CAT-C11-N490333
QSFP28-Four SFP+ Cable Assembly:
30 AWG



 <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 # 1551920-2 zQSFP+ connector assembly</p>	 <p>TE Part # 1888810-2 EMI/Dust Cover,XFP And QSFP</p>

Also in the Series | **zQSFP+/QSFP28**

 <p>Pluggable I/O Cable Assemblies(81)</p>	 <p>QSFP, QSFP+ & zQSFP+(432)</p>
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Documents

Product Drawings

1x3 Cage Assy Bhnd Bzl QSFP28

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2173239-1_A_c-2173239-1-a.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2173239-1_A_c-2173239-1-a.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2173239-1_A_c-2173239-1-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
Terminating AMP MTEI Connector
English
Application Specification
English