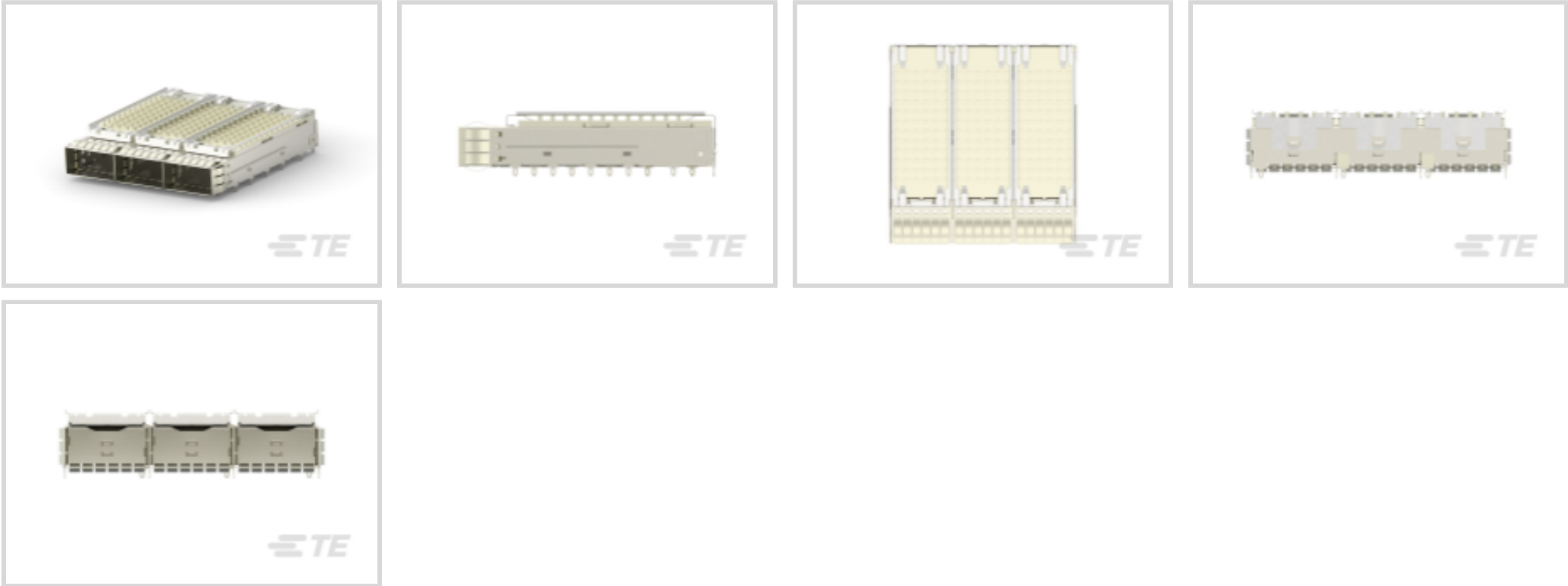




Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP28/56**
Pluggable I/O Product Type: **Cage Assembly**
Sealable: **No**
Circuit Application: **Signal**
Operating Temperature Range: **-55 – 105 °C [-67 – 221 °F]**

Features

Product Type Features

Cage Type	Ganged
Thermal Accessory Type Included	Heat Sink
Form Factor	QSFP28/56
Pluggable I/O Product Type	Cage Assembly
Sealable	No

Configuration Features

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

Electrical Characteristics

Data Rate (Max)	28 Gb/s
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Body Features

Heat Sink Style	Pin
Heat Sink Finish	Anodized Black



	.165 in
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Heat Sink Height Class	PCI
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Contact Features

PCB Contact Termination Area Plating Material	Tin
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Termination Features

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

Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
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Circuit Application	Signal
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Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features

Packaging Method	Box & Tray
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Other

Included Lightpipe	No
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EMI Containment Feature Type	Internal/External EMI Springs
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Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247)
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Candidate List Declared Against: JAN 2025 (247)
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 reviewed 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



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-C11-N49
QSFP28-Two QSFP28 Cable
Assembly: 30 AWG



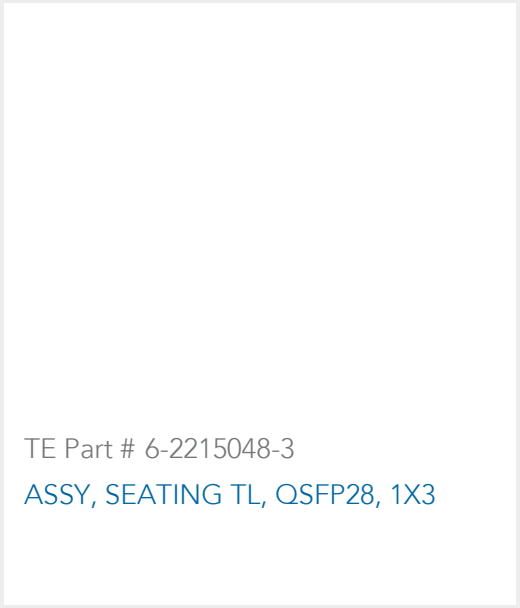
TE Part # CAT-Q17-N490333
QSFP56-Four SFP56 Cable Assembly:
26 AWG



TE Part # 1551920-2
zQSFP+ connector assembly



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



TE Part # 6-2215048-3
ASSY, SEATING TL, QSFP28, 1X3



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



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



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



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

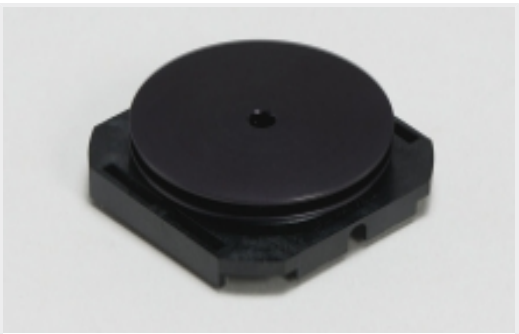


TE Part # CAT-C11-Z806726
QSFP28 to QSFP28 Cable Assembly:
30 AWG

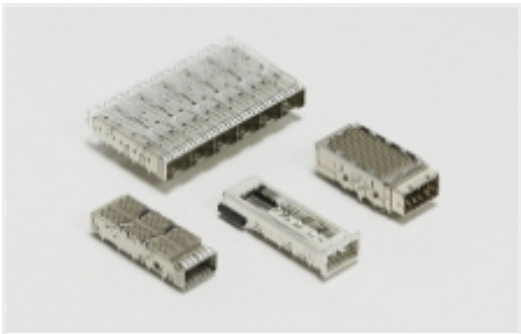


TE Part # CAT-Q17-N49011
QSFP56-Four SFP56 Cable Assembly:
30 AWG

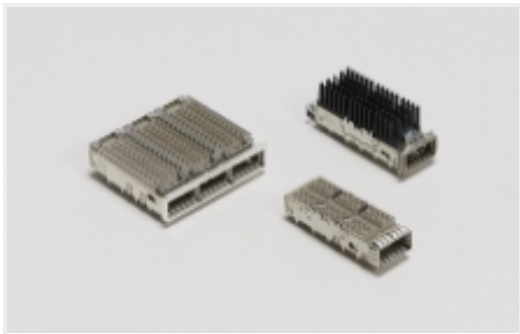
Also in the Series | [zQSFP+/QSFP28](#)



Heat Sinks(7)



Pluggable IO Connectors & Cages(424)

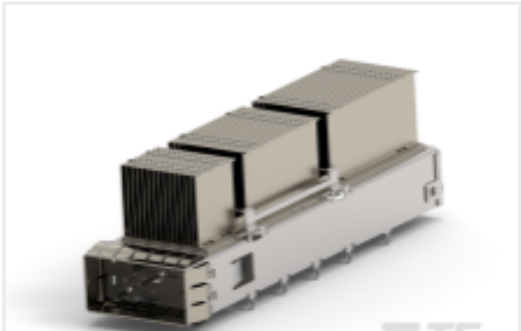


QSFP, QSFP+ & zQSPF+(424)

Customers Also Bought



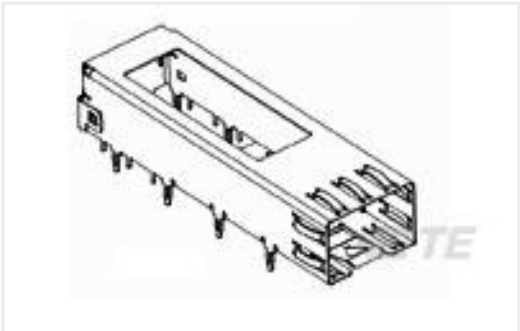
TE Part #1410140-2
MULTIGIG RT T2 .8" BP FULL CNT



TE Part #2342934-3
QSFP-DD 1X1, STANDARD, W/
ZIPPER HS



TE Part #5-147279-2
10 MODII HDR DR SFMT B/A T&R LF



TE Part #2227316-1
DWDM Cage Assembly, 11 PF



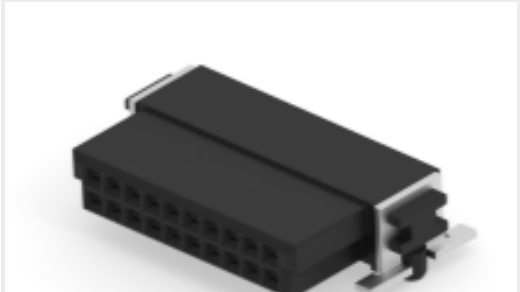
TE Part #2-2170747-7
CAGE ASSY, 1X4, QSFP28, SPRING,
HS, LP



TE Part #2-5767004-5
MICTOR RECEPT ASSY, 152 POS.



TE Part #1410142-2
MULTIGIG RT T2 .8" BP FULL RGH



TE Part #354079-E
SMCQ 20 F AB VV 7-03 CL * 0007 137
E002



Documents

Product Drawings

QSFP28, 1X3, CAGE ASSEMBLY, SPRING, HS

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2170738-1_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2170738-1_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2170738-1_1.3d_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