



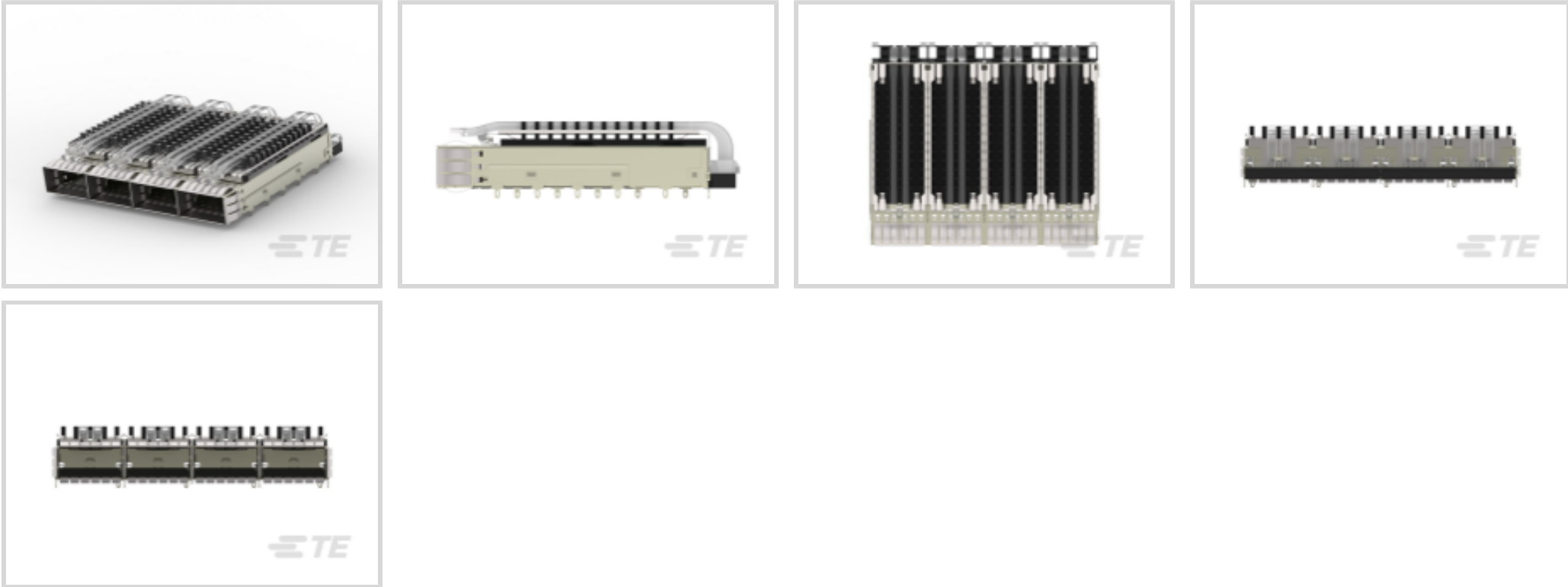
zQSFP+/QSFP28

TE Internal #: 2-2170747-2

QSFP28/56, Cage Assembly, Signal, Operating Temperature Range
-40 – 85 °C [-40 – 185 °F], Data Rate (Max) 28 Gb/s, 4 Ports

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Connectors > Pluggable IO Connectors & Cages



Form Factor: **QSFP28/56**
Pluggable I/O Product Type: **Cage Assembly**
Sealable: **No**
Circuit Application: **Signal**
Operating Temperature Range: **-40 – 85 °C [-40 – 185 °F]**

Features

Industry Standards

UL Flammability Rating	UL 94V-0
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Termination Features

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

Contact Features

PCB Contact Termination Area Plating Material	Tin
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Dimensions

PCB Thickness (Recommended)	1.57 mm[.062 in]
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Housing Features

Cage Material	Nickel Silver
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Body Features

Heat Sink Style	Pin
Heat Sink Finish	Anodized Black
	.256 in



Heat Sink Height Class	SAN
Packaging Features	
Packaging Method	Box & Tray
Configuration Features	
Number of Rear EONs per Port Column	1
Number of Ports	4
Port Matrix Configuration	1 x 4
Operation/Application	
Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
Circuit Application	Signal
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
Electrical Characteristics	
Data Rate (Max)	28 Gb/s
Usage Conditions	
Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
Other	
Included Lightpipe	Yes
EMI Containment Feature Type	Internal/External EMI Springs
EU RoHS Compliance	Compliant
EU ELV Compliance	Compliant
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	



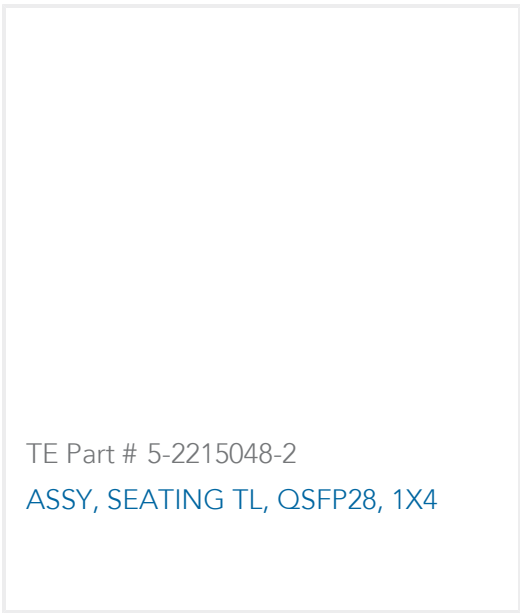
Current ECHA Candidate List: JUNE 2024 (241)
Candidate List Declared Against: JUNE 2024 (241)
Does not contain REACH SVHC

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 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 # 5-2215048-2
ASSY, SEATING TL, QSFP28, 1X4



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



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



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



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



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



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



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



TE Part # 1551920-2
zQSFP+ connector assembly

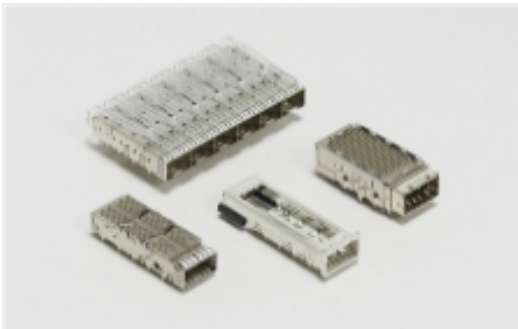


TE Part # CAT-Q17-N490325
QSFP56 to QSFP56 Cable Assembly:
30 AWG

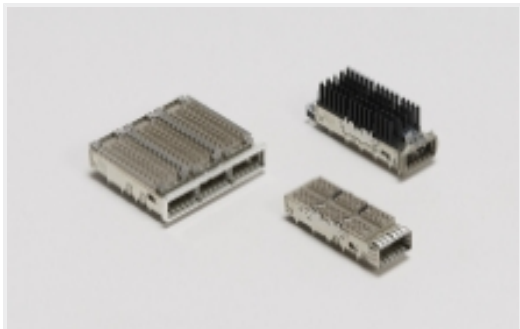
Also in the Series | [zQSFP+/QSFP28](#)



Pluggable I/O Cable Assemblies(78)

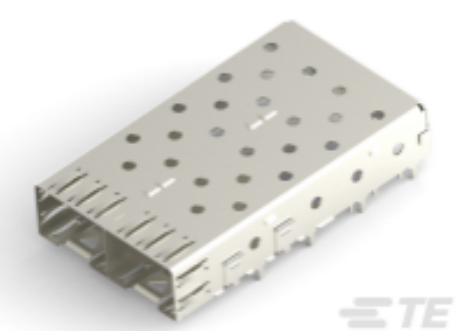


Pluggable IO Connectors & Cages(424)



QSFP, QSFP+ & zQSPF+(424)

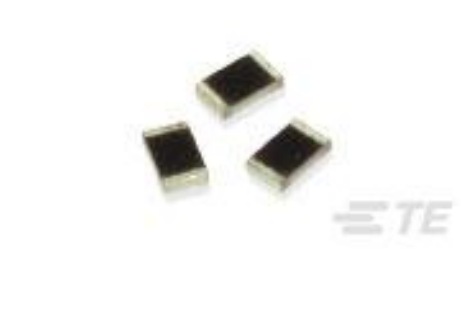
Customers Also Bought



TE Part #1761014-3
SFP 1X2 CAGE ASSY, PRESS FIT



TE Part #5-1624113-2
3650 0805 0.22uH 5% 2K RL



TE Part #1625856-4
RH73 2A 20M 10% 100PPM 1K RL



TE Part #2170704-6
CAGE ASSY, QSFP28 1X1, SPRING, HS



TE Part #2274842-2
HARDWARE KIT, CFP2, 1X1,



TE Part #4-1624113-3
3650 0805 72nH 5% 2K RL



TE Part #2198231-2
SFP+ Enhanced 1x2, SAN Heatsink, LP



TE Part #5053092090
RNF-100-1/4-0-STK



TE Part #5-1879207-0
RN 0603 499K 0.1% 10PPM 1K RL



TE Part #4-1734839-0
FPC CONN. 0.5MM PITCH T/C,40P

Documents

Product Drawings

CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2-2170747-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2-2170747-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2-2170747-2_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