



zQSFP+/QSFP28

TE Internal #: 2170745-1
QSFP28/56, Cage Assembly, 19mm [.748in] Centerline, 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**
Centerline (Pitch): **19 mm [.748 in]**
Sealable: **No**
Circuit Application: **Signal**

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]

Dimensions

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

Heat Sink Style	Pin
Heat Sink Finish	Anodized Black
	.165 in
Heat Sink Height Class	PCI

Packaging Features

Packaging Method	Box & Tray
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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

Housing Features

Cage Material	Nickel Silver
Centerline (Pitch)	19 mm[.748 in]

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
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Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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Other

Included Lightpipe	No
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	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

TE Part # 6-2215048-4 ASSY, SEATING TL, QSFP28, 1X4	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 # 1551920-2 zQSFP+ connector assembly
TE Part # CAT-Q17-N490325 QSFP56 to QSFP56 Cable Assembly: 30 AWG	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-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

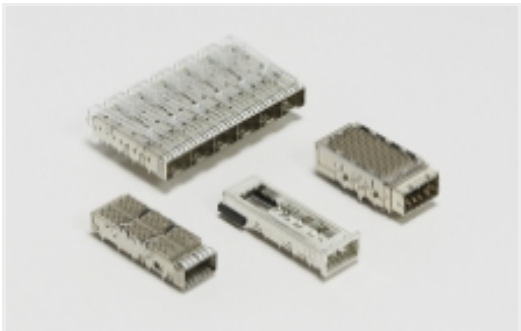


TE Part # CAT-C11-N490325
QSFP28-Four SFP+ Cable Assembly:
26 AWG

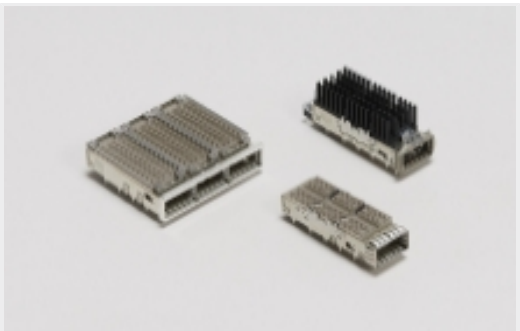
Also in the Series | zQSFP+/QSFP28



Pluggable I/O Cable Assemblies(78)



Pluggable IO Connectors & Cages(424)



QSFP, QSFP+ & zQSFP+(424)

Customers Also Bought



TE Part #CAT-H857-H34220
AMP HPI 2.0 mm Headers



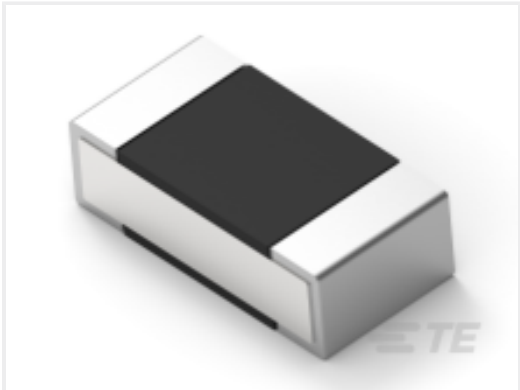
TE Part #1888247-1
20 POS SMT CONN, SFP/SFP+, 30A



TE Part #440129-5
2.0MM,HSG,5POS



TE Part #9-1879215-1
CPF 0402 40K2 0.1% 25PPM 1K RL



TE Part #6-2176306-6
RP 1E 0.1W 5K49 0.1% 25PPM 5K RL



TE Part #2288589-2
1X5 SFP+ CAGE EMI EHANCED WITH HS

Document

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2170745-1_A.2d_dxf.zip

English



Customer View Model

[ENG_CVM_CVM_2170745-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170745-1_A.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

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

English

Product Specifications

[Application Specification](#)

English