2170287-1 ✓ ACTIVE

QSFP/QSFP+

TE Internal #: 2170287-1

QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 4, Elastomeric Gasket, Standard, Data Rate (Max) 14 Gb/s, 4 Port, Pin, QSFP /QSFP+

View on TE.com >

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

Pluggable I/O Product Type: **Cage Assembly**

Port Matrix Configuration: **1 x 4**

EMI Containment Feature Type: **Elastomeric Gasket**

Thermal Accessory Type Included: **Heat Sink**

Included Lightpipe: **No**

Features

Product Type Features

Form Factor	QSFP+
Cage Type	Ganged
Pluggable I/O Product Type	Cage Assembly
Thermal Accessory Type Included	Heat Sink
Connector System	Cable-to-Board
Sealable	Yes
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Port Matrix Configuration	1 x 4
Number of Ports	4
Number of Rear EONs per Port Column	2

Electrical Characteristics

Data Rate (Max)	14 Gb/s

Body Features

Heat Sink Finish	Anodized Black
Heat Sink Style	Pin
Heat Sink Height Class	PCI

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Heat Sink Height	4.2 mm[.165 in]

Contact Features

PCB Contact Termination Area Plating Material	Tin

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

Housing Features

Cage Material	Nickel Silver

Dimensions

PCB Thickness (Recommended)	1.45 mm[.057 in]

Usage Conditions

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

Operation/Application

For Use With Pluggable I/O Products	QSFP Cable Assembly, QSFP MSA Compatible Transceiver
Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Method	Box & Tray

Other

EMI Containment Feature Type	Elastomeric 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

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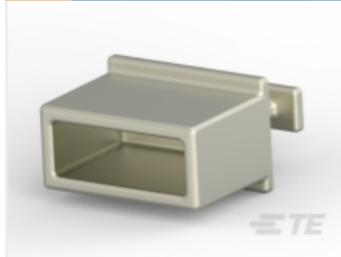
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) SVHC > Threshold: Octamethylcyclotetrasiloxane (D4) (.2% in Component) **Article Safe Usage Statements:** Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
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 # CAT-C11-H501114

QSFP to QSFP I/O Cable Assembly: 30 AWG

TE Part # CAT-C11-H50111

QSFP-Four SFP+ I/O Cable Assembly 30 AWG

TE Part # 2110819-1

QSFP+ Enh EVERCLEAR PT Conn

TE Part # 1888810-2

EMI/Dust Cover,XFP And QSFP

TE Part # CAT-C11-H5011

QSFP-Four SFP+ I/O Cable Assembly 28 AWG

TE Part # CAT-C11-H5011142

QSFP to QSFP I/O Cable Assembly: 33 AWG

TE Part # 2053638-5

C/A, QSFP, 5M, P1-P2, UNEQUALIZED

TE Part # 1-2220639-0

QSFP TO QSFP, ACTIVE, 28AWG, 10M

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TE Part # 1-2220639-3
QSFP TO QSFP, ACTIVE, 28AWG, 13M

TE Part # 2053638-4
C/A, QSFP, 4M, P1-P2, UNEQUALIZED

TE Part # 2215057-1
ASSY, SEATING TL, QSFP 1X4

TE Part # 2202165-4
QSFP TO QSFP, 26AWG, FDR, 4.0 METER

TE Part # 2202165-5
QSFP TO QSFP, 26AWG, FDR, 5.0 METER

TE Part # 2829040-2
QSFP IB EDR, 33AWG, 1.0M

TE Part # 2829040-4
QSFP IB EDR, 30AWG, 1.0M

TE Part # 2829040-6
QSFP IB EDR, 30AWG, 2.0M

TE Part # 2829040-7
QSFP IB EDR, 26AWG, 2.0M

TE Part # 2829040-8
QSFP IB EDR, 26AWG, 3.0M

TE Part # 2821033-8
QSFP TO [4]SFP+, 28G, 1M, 33AWG

Also in the Series | QSFP/QSFP+

Heat Sinks(1)

Pluggable I/O Cable Assemblies(33)

QSFP, QSFP+ & zQSPF+(168)

Documents

Product Drawings
1X4 CAGE ASSEMBLY, THRU BEZEL, W/ GASKET

English

CAD Files
3D PDF

3D

Customer View Model

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QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 4, Elastomeric Gasket, Standard, Data Rate (Max) 14 Gb/s, 4 Port, Pin, QSFP/QSFP+

ENG_CVM_CVM_2170287-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2170287-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2170287-1_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Product Specifications

Application Specification

English

Product Environmental Compliance

MD_2170287-1_08042017231_dmtec

English

MD_2170287-1_08042017231_dmtec

English