

2170112-1 ✓ ACTIVE

QSFP/QSFP+

TE Internal #: 2170112-1

QSFP, QSFP+ & zQSFP+, Cage Assembly, 1 x 1, Customer Applied Gasket, Included Lightpipe, Standard, Data Rate (Max) 14 Gb/s, 1 Port, QSFP/QSFP+

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



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

Port Matrix Configuration: **1 x 1**

EMI Containment Feature Type: **Customer Applied Gasket**

Thermal Accessory Type Included: **Heat Sink**

Included Lightpipe: **Yes**

Features

Product Type Features

Form Factor	QSFP+
Cage Type	Single
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 1
Number of Ports	1
Lightpipe Configuration	Dual Round
Number of Rear EONs per Port Column	2

Electrical Characteristics

Data Rate (Max)	14 Gb/s
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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]
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Contact Features

PCB Contact Termination Area Plating Material	Tin
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Termination Features

Termination Post & Tail Length	2.2 mm[.086 in]
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Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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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	QSFP Cable Assembly, QSFP MSA Compatible Transceiver
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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

EMI Containment Feature Type	Customer Applied Gasket
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Included Lightpipe	Yes
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Enhancements	Standard
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Not Yet Reviewed
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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) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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 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-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



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



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



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+ & zQSFP+(168)

Documents

Product Drawings

QSFP 1X1 BEHIND BEZEL ASSEMBLY

English

CAD Files

3D PDF

3D

Customer View Model



[ENG_CVM_CVM_2170112-1_4.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170112-1_4.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170112-1_4.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English