

2170112-3 ✓ ACTIVE

QSFP/QSFP+

TE Internal #: 2170112-3

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	Networking
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Heat Sink Height	13.5 mm[.531 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	Compliant
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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) Candidate List Declared Against: JAN 2021 (211) 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 # 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

Cage Assy SAN Hsink QSFP Behind Bezel

English

### CAD Files

3D PDF

3D

Customer View Model



[ENG\\_CVM\\_CVM\\_2170112-3\\_4.2d\\_dxf.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2170112-3\\_4.3d\\_igs.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_CVM\\_2170112-3\\_4.3d\\_stp.zip](#)

English

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## Product Specifications

[Application Specification](#)

English