



TE Internal #: 2170450-1
 QSFP, QSFP+ & zQSFP+, Cage Assembly, 1 x 1, Internal/External
 EMI Springs, EMI Enhanced, 1 Port, Pin, Heat Sink Height 8.5 mm [.335 in]

[View on TE.com >](#)

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: **Internal/External EMI Springs**
 Thermal Accessory Type Included: **Heat Sink**
 Included Lightpipe: **No**

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	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

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

Body Features

Heat Sink Finish	Electroless Nickel
Heat Sink Style	Pin



Heat Sink Height Class	Custom
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Heat Sink Height	8.5 mm [.335 in]
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Contact Features

Contact Current Rating (Max)	.5 A
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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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Housing Features

Cage Material	Nickel Silver
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Dimensions

PCB Thickness (Recommended)	2.2 mm [.086 in]
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Usage Conditions

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

Heat Sink Compatible	No
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For Use With Pluggable I/O Products	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	Internal/External EMI Springs
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Included Lightpipe	No
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Enhancements	EMI Enhanced
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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
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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 2023 (235) Candidate List Declared Against: DEC 2014 (161) SVHC > Threshold: Not Yet Reviewed
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 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



Customers Also Bought



Documents

Product Drawings

Cage Assy W/Hsink, Thru Bezel,

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_2170450-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170450-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2170450-1_A.3d_stp.zip](#)

English

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Product Specifications

Application Specification

English