

CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP ✓ ACTIVE

zQSFP+/QSFP28

TE Part # 4-2170747-5

TE Internal #: 4-2170747-5

[View on TE.com >](#)



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



Form Factor: **QSFP28/56**

Product Type: **Cage Assembly**

Port Matrix Configuration: **1 x 4**

EMI Containment Feature Type: **Internal/External EMI Springs**

Included Heat Sink: **Yes**

Features

Product Type Features

Form Factor	QSFP28/56
Product Type	Cage Assembly
Included Heat Sink	Yes
Cage Type	Ganged
Connector System	Cable-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Port Matrix Configuration	1 x 4
Number of Ports	4
Lightpipe Configuration	Quad Round
Rear EONs per Port Column	0

Electrical Characteristics

Data Rate (Max)	28 Gb/s
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Body Features

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

Heat Sink Height	6.5 mm[.256 in]
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Contact Features

PCB Contact Termination Area Plating Material	Tin
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Termination Features

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

Tail Length	2.05 mm[.081 in]
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PCB Thickness (Recommended)	1.57 mm[.062 in]
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Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
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Operation/Application

Pluggable I/O Applications	Standard
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For Use With Pluggable I/O Products	QSFP28 Cable Assembly, QSFP28 MSA Compatible Transceiver
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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	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
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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: JAN 2019 (197) Candidate List Declared Against: JUN 2016 (169)
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 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



Pluggable I/O Cable Assemblies(23)



QSFP/QSFP+/zQSFP+(1)



XFP(1)

Also in the Series | zQSFP+/QSFP28



Pluggable I/O Cable Assemblies(88)



QSFP/QSFP+/zQSFP+(411)

Customers Also Bought



TE Part #1393590-5
V23648A 62B 4=HS-
BUCHSE



TE Part #1857995-1
Z-PACK/B F-HDR.125P,
EON



TE Part #2029032-2
MICRO MNL HDR ASY S/R
REV REEL




TE Part #2170737-2
QSFP28, 1X3, CAGE
ASSEMBLY, SPRING



TE Part #5-102557-7
60 MODII HDR DRST
SHRD A/PIN If



TE Part #5179160-5
0.8FH,R05H.7,120,08/Sn,
TR,SC,PS



TE Part #87227-9
18 MODII HDR DRST
UNSHRD .100



TE Part #
YACT24JG39AAV00100
JAM NUT RECEPTACLE



TE Part #5-1622826-0
CRG0402 5% 56K



TE Part #1-1617164-6
JMAPDD-5XL = M39016
/20-037L

Documents

Product Drawings

CAGE ASSY, 1X4, QSFP28, SPRING, HS, LP

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_4-2170747-5_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_4-2170747-5_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_4-2170747-5_A.3d_stp.zip](#)

English



Datasheets & Catalog Pages

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

English

Product Environmental Compliance

[TE Material Declaration](#)

English