



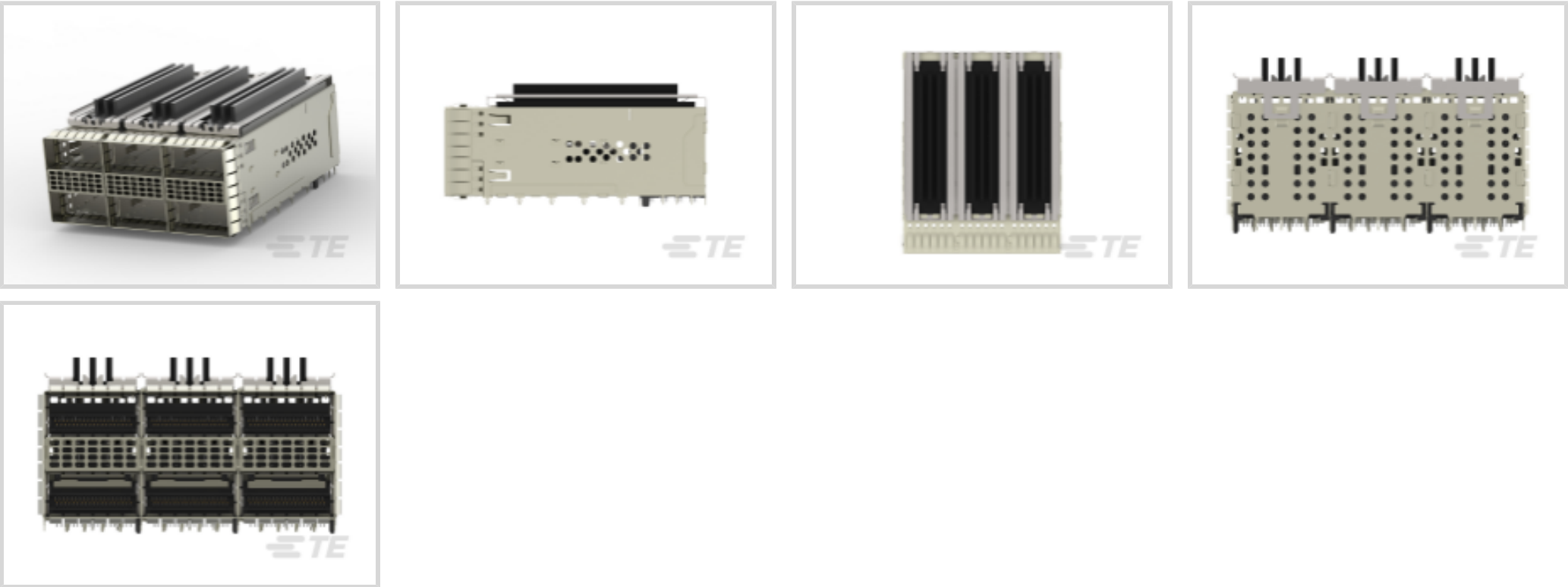
zQSFP+/QSFP28

TE Internal #: 2299924-2

zQSFP+/QSFP28, QSFP/QSFP+/zQSFP+, Cage Assembly with Integrated Connector, Port Matrix Configuration 2 x 3, Internal /External EMI Springs

[View on TE.com >](#)

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



Pluggable I/O Product Type: **Cage Assembly with Integrated Connector**

Port Matrix Configuration: **2 x 3**

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

Thermal Accessory Type Included: **Heat Sink**

Included Lightpipe: **No**

Features

Product Type Features

Form Factor	zQSFP+
Cage Type	Stacked
Pluggable I/O Product Type	Cage Assembly with Integrated Connector
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	2 x 3
Number of Ports	6
Number of Rear EONs per Port Column	3
Number of Positions	228

Electrical Characteristics

Data Rate (Max)	25 Gb/s
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Body Features

Heat Sink Finish	Anodized Black
Heat Sink Style	Fin
Heat Sink Height Class	Custom
Heat Sink Height	6.77 mm[.266 in]

Contact Features

Contact Mating Area Plating Material	Gold
Contact Mating Area Plating Thickness	30 μm[.76 μin]
Contact Underplating Material	Tin
PCB Contact Termination Area Plating Material	Gold
Contact Current Rating (Max)	.5 A

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
Centerline (Pitch)	.8 mm[.032 in]

Dimensions

PCB Thickness (Recommended)	1.57 mm[.062 in]
Tail Length	2 mm[.079 in]

Usage Conditions

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

Heat Sink Compatible	No
For Use With Pluggable I/O Products	QSFP28 Cable Assembly, QSFP28 MSA Compatible Transceiver
Pluggable I/O Applications	Thermally Enhanced
Circuit Application	Signal

Industry Standards

UL Flammability Rating	UL 94V-0
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Packaging Features



Packaging Method	Box & Tray
Other	
EMI Containment Feature Type	Internal/External EMI Springs
Included Lightpipe	No
Enhancements	Thermally Enhanced

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
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 2021 (211) 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



TE Part # 2821309-4
QSFP TO [2]QSFP, 28G, 3 METER, 30AWG



TE Part # 2821309-7
QSFP TO [2]QSFP, 28G, 1 METER, 33AWG



TE Part # 2821309-8
QSFP TO [2]QSFP, 28G, 3 METER, 28AWG



TE Part # 2821309-3
QSFP TO [2]QSFP, 28G, 3 METER, 26AWG



TE Part # 2821309-5
QSFP TO [2]QSFP, 28G, 2 METER, 26AWG



TE Part # 2821309-9
QSFP TO [2]QSFP, 28G, 5 METER, 26AWG



TE Part # 2821309-2
QSFP TO [2]QSFP, 28G, 2 METER, 30AWG



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 | [zQSFP+/QSFP28](#)



Pluggable I/O Cable Assemblies(84)



QSFP/QSFP+/zQSFP+(430)

Customers Also Bought

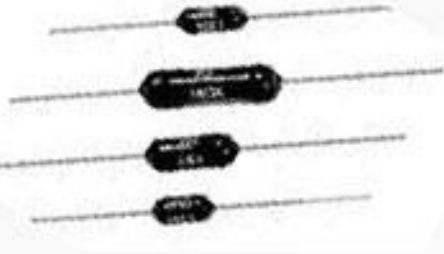




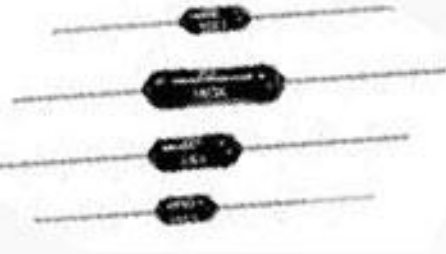
TE Part #2309407-1
DDR4 SO DIMM SOCKETS



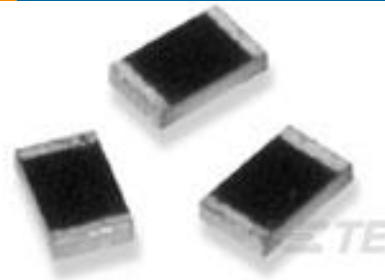
TE Part #2299924-5
ZQSFP+ STACKED REC ASSEMBLY
2X3,4LP HS



TE Part #3-1879624-3
H4 22R1 1% 15PPM



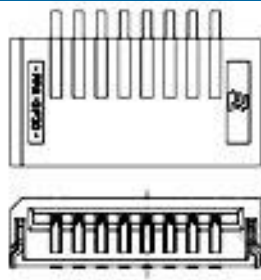
TE Part #2-1879640-0
H4P 2K87 0.5% 50PPM



TE Part #1-1879252-7
RP 2B 5R36 0.1% 15PPM 1K RL



TE Part #1-2316102-2
12P,2MM,REC,HSG,SR,CRIMP,PLAIN,
BOX



TE Part #1735360-8
1mm FFC SMT H BOTTOM
CONTACT ASSY, 8P



TE Part #2316108-8
8P,2MM,REC,HSG,DR,CRIMP,PLAIN,
BOX



TE Part #ZPF000000000036650
983-6S 18-31 S7

Documents

Product Drawings

ZQSFP+ STACKED REC ASSEMBLY 2X3,4LP HS

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2299924-2_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2299924-2_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2299924-2_A.3d_stp.zip

English

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Product Specifications



Application Specification

English