

QSFP/QSFP+

TE Internal #: 2057042-3 QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 3, Customer Applied Gasket, Included Lightpipe, Standard, Data Rate (Max) 14 Gb/s, 3 Port, QSFP/QSFP+

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Pluggable I/O Product Type: Cage Assembly Port Matrix Configuration: 1 x 3 EMI Containment Feature Type: Customer Applied Gasket Thermal Accessory Type Included: Heat Sink Included Lightpipe: Yes

Features

Product Type Features

Form Factor	QSFP+
Cage Туре	Ganged
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 3
Number of Ports	3
Lightpipe Configuration	Dual Round
Number of Rear EONs per Port Column	1
Electrical Characteristics	
Data Rate (Max)	14 Gb/s
Body Features	
Heat Sink Finish	Anodized Black
Heat Sink Style	Pin



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

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PCB Contact Termination Area Plating Material Tin Termination Features 22 mmf.086 in] Termination Post & Tail Length 2.2 mmf.086 in] Termination Method to Printed Circuit Board Through Hole - Press-Fit Mechanical Attachment Board Mount Connector Mounting Type Board Mount Cage Material Nickel Silver Cage Material Nickel Silver PCB Thickness (Recommended) 145 mmf.057 in] PCB Thickness (Recommended) 455 - 105 °C[-67 - 221 °C] Operating Temperature Range -55 - 105 °C[-67 - 221 °C] Prestored Mouth Pluggable I/O Products SPFP Cable Assembly, QSFP MSA Compatible Transceiver Pluggable I/O Application SPFP Cable Assembly, QSFP MSA Compatible Transceiver Pluggable I/O Applications SPF Cable Assembly, QSFP MSA Compatible Transceiver Pluggable I/O Applications Signal Inturty Standards U Plugable I/O Applications Pluggable I/O Applications Signal Pluggable I/O Application Signal Pluggable I/O Application U Plugable Transceiver Pluggable I/O Applications Signal P		
Contact Features Tin FCB Contact Termination Area Plating Material Tin Termination Features 2.2 mm[.086 in] Termination Method to Printed Circuit Board Through Hole - Press-Fit Mechanical Attachment Board Mount Connector Mounting Type Board Mount Housing Features Its mm[.057 in] Cage Material Nickel Silver Dimensions 145 mm[.057 in] PGR Thickness (Recommended) 1.45 mm[.057 in] Operating Temperature Range 55 105 °C] 67 221 °F] Operating Temperature Range SFP Cable Assembly, OSFP MSA Compatible Transceiver Profestion/Applications SFP Cable Assembly, OSFP MSA Compatible Transceiver Pugable I/O Applications SIgnal	Heat Sink Height Class	Networking
PCB Contact Termination Area Plating Material Tin Termination Features 22 mm[.086 in] Termination Post & Tail Length 22 mm[.086 in] Termination Method to Printed Circuit Board Through Hole - Press Fit Mechanical Attachment Unrough Hole - Press Fit Connector Mounting Type Board Mount Housing Features Unrough Hole - Press Fit Cage Material Nickel Silver Cage Material Nickel Silver PCB Thickness (Recommended) 1.45 mm[.05/ in] Usage Conditions -55 = 105 °C[-6/ - 221 °I] Operating Temperature Range -55 = 105 °C[-6/ - 221 °I] Operating Temperature Range SEPP - Stacked Belly to Belly Pluggable I/O Applications SEPP - Stacked Belly to Belly Pluggable I/O Applications SEPP - Stacked Belly to Belly Circuit Application Signal Pluggable I/O Applications SEPP - Stacked Belly to Belly Pluggable I/O Applications SEP - Stacked Belly to Belly Circuit Application Signal Pluggable I/O Applications SEP - Stacked Belly to Belly Pluggable I/O Applications <t< td=""><td>Heat Sink Height</td><td>13.5 mm[.531 in]</td></t<>	Heat Sink Height	13.5 mm[.531 in]
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Housing Features Cage Material Nickel Silver PImensions 1.45 mm[.057 in] PCB Thickness (Recommended) 1.45 mm[.057 in] Usage Conditions	Mechanical Attachment	
Cage Material Nickel Silver Cage Material Nickel Silver Dimensions 1.45 mm[.057 in] PCB Thickness (Recommended) 1.45 mm[.057 in] Usage Conditions -55 - 105 °C[-67 - 221 °F] Operating Temperature Range -55 - 105 °C[-67 - 221 °F] Operation/Application -55 - 105 °C[-67 - 221 °F] Plugable I/O Applications SFP Cable Assembly, QSFP MSA Compatible Transceiver Plugable I/O Applications SFP Cable Assembly, QSFP MSA Compatible Transceiver Circuit Application Signal UL Flammability Rating UL 94V-0 Vul Flammability Rating UL 94V-0 Packaging Method Box & Tray Packaging Method Box & Tray Packaging Method Customer Applied Gasket Included Lightpipe Yes	Connector Mounting Type	Board Mount
Dimensions PCB Thickness (Recommended) 1.45 mm[.057 in] Usage Conditions Usage Conditions Operating Temperature Range -55 – 105 °C[-67 – 221 °F] Operation/Application SFP Cable Assembly, OSFP MSA Operation/Applications SFP Cable Assembly, OSFP MSA Plugable I/O Applications SFP+ Stacked Belly-to-Belly Circuit Application Signal Industry Standards UL Plammability Rating UL Flammability Rating UL 94V-0 Packaging Method Box & Tray Phackaging Method Box & Tray FMI Containment Feature Type Customer Applied Gasket Included Lightpipe Yea	Housing Features	
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Usage Conditions -55 - 105 °C[-67 - 221 °F] Operation/Application -55 - 105 °C[-67 - 221 °F] Operation/Application SFP Cable Assembly, QSFP MSA Compatible Transceiver For Use With Pluggable I/O Products SFP Cable Assembly, QSFP MSA Compatible Transceiver Pluggable I/O Applications SFP + Stacked Belly-to-Belly Circuit Application Signal Industry Standards UL Planmability Rating UL Flammability Rating UL 94V-0 Packaging Method Box & Tray Packaging Method Box & Tray EMI Containment Feature Type Customer Applied Gasket Included Lightpipe Yes	Dimensions	
Operating Temperature Range -55 – 105 °C[-67 – 221 °F] Operation/Application SFP Cable Assembly, QSFP MSA Compatible Transceiver Pluggable I/O Applications SFP + Stacked Belly-to-Belly I luggable I/O Applications Signal Out Application Signal UL Flammability Rating UL 94V-0 Packaging Features Stray Packaging Method Box & Tray Cher EMI Containment Feature Type Customer Applied Gasket I cluded Lightpipe Yes	PCB Thickness (Recommended)	1.45 mm[.057 in]
Operation/Application SFP Cable Assembly, QSFP MSA Compatible Transceiver Pluggable I/O Applications SFP+ Stacked Belly-to-Belly Circuit Application Signal Circuit Application Signal Industry Standards UL Flammability Rating Packaging Method Du 94V-0 Chere EMI Containment Feature Type Included Lightpipe Customer Applied Gasket	Usage Conditions	
For Use With Pluggable I/O Products QSFP Cable Assembly, QSFP MSA Compatible Transceiver Pluggable I/O Applications SFP+ Stacked Belly-to-Belly circuit Application Signal Industry Standards UL 94V-0 Packaging Features Dis Array Packaging Method Box & Tray Influence Type Customer Applied Gasket Included Lightpipe Yes	Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
Pluggable I/O Applications Compatible Transceiver Pluggable I/O Applications SFP+ Stacked Belly-to-Belly Circuit Application Signal Industry Standards UL Planmability Rating UL Flammability Rating UL 94V-0 Packaging Features Standards Packaging Method Box & Tray Cher EMI Containment Feature Type Customer Applied Gasket Included Lightpipe Yes	Operation/Application	
Circuit Application Signal Industry Standards UL Plammability Rating UL Flammability Rating UL 94V-0 Packaging Features Signal Packaging Method Box & Tray Other EMI Containment Feature Type Customer Applied Gasket Included Lightpipe Yes	For Use With Pluggable I/O Products	
Industry Standards UL Flammability Rating UL Flammability Rating UL Packaging Features Packaging Method Box & Tray Other EMI Containment Feature Type Included Lightpipe Yes	Pluggable I/O Applications	SFP+ Stacked Belly-to-Belly
UL Flammability Rating UL 94V-0 Packaging Features Packaging Method Box & Tray Other IMI Containment Feature Type Customer Applied Gasket Included Lightpipe Yes	Circuit Application	Signal
Packaging Features Box & Tray Packaging Method Box & Tray Other Customer Applied Gasket Included Lightpipe Yes	Industry Standards	
Packaging MethodBox & TrayOtherCustomer Applied GasketEMI Containment Feature TypeCustomer Applied GasketIncluded LightpipeYes	UL Flammability Rating	UL 94V-0
Other EMI Containment Feature Type Customer Applied Gasket Included Lightpipe Yes	Packaging Features	
EMI Containment Feature Type Customer Applied Gasket Included Lightpipe Yes	Packaging Method	Box & Tray
Included Lightpipe Yes	Other	
	EMI Containment Feature Type	Customer Applied Gasket
Enhancements Standard	Included Lightpipe	Yes
	Enhancements	Standard

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 2023 (235) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.

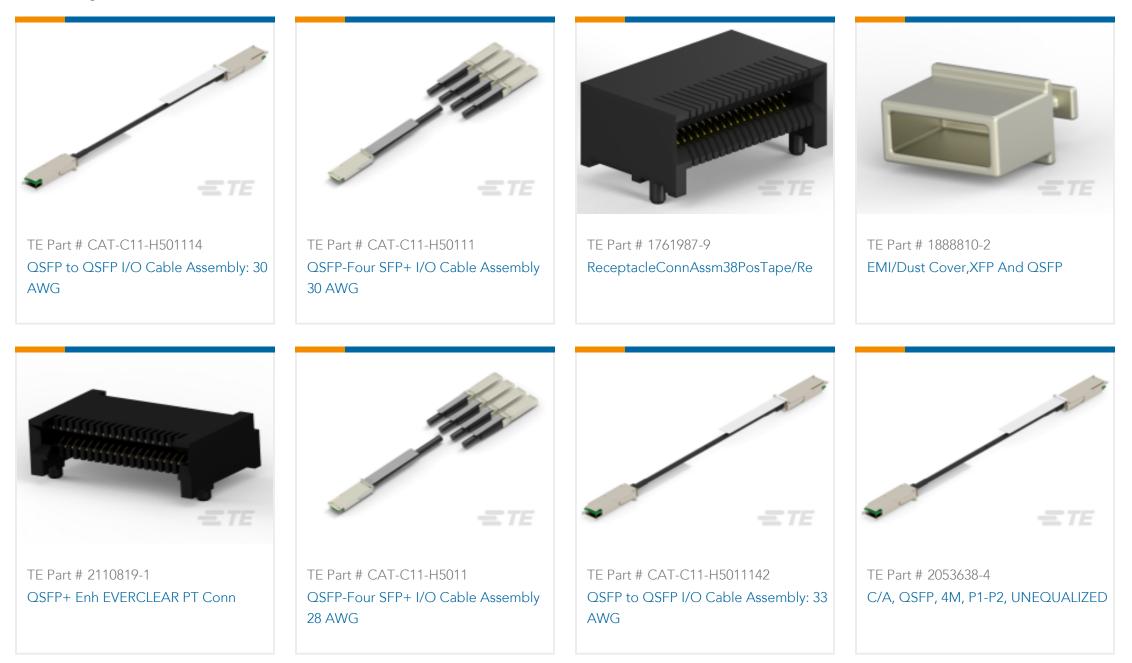
Solder Process Capability

Not applicable for solder process capability

Product Compliance Disclaimer

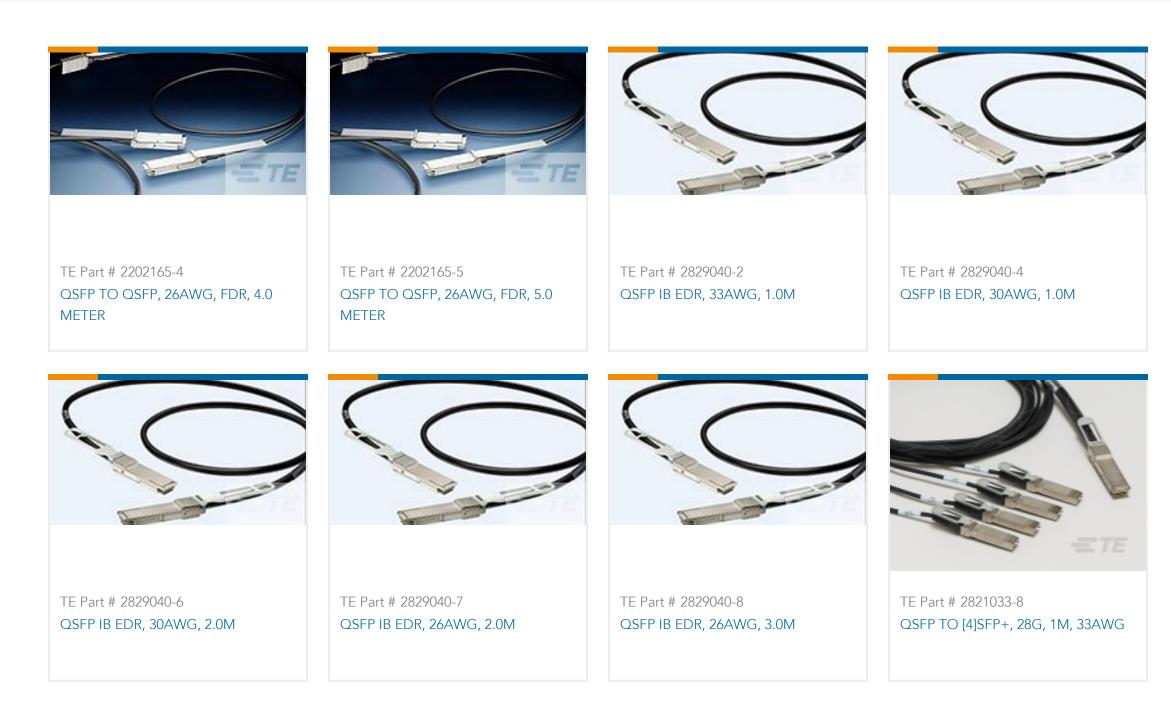
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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-onreach

Compatible Parts

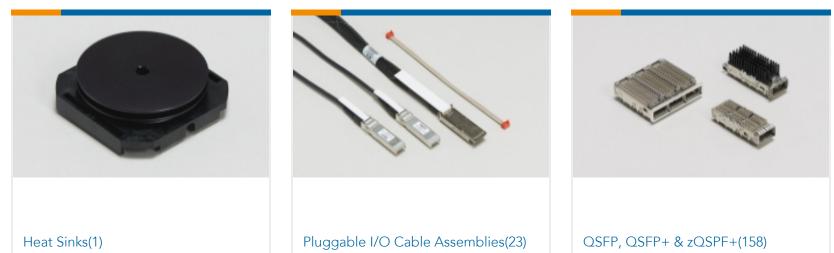


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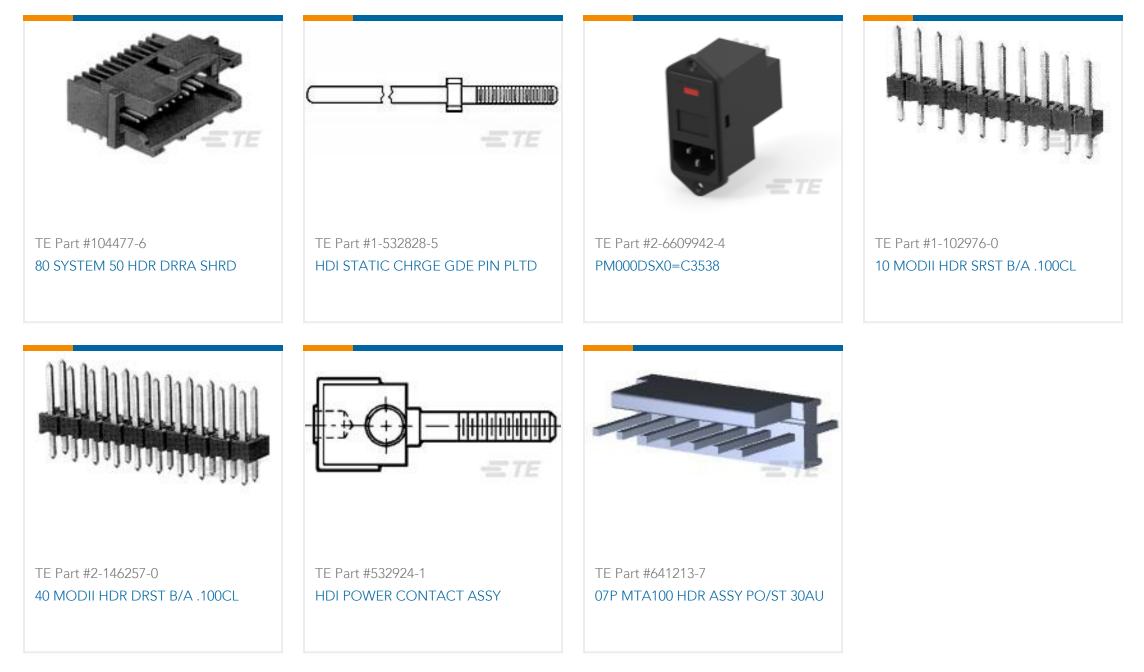




Also in the Series **OSFP/OSFP+**



Customers Also Bought



QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 3, Customer Applied Gasket, Included Lightpipe, Standard, Data Rate (Max) 14 Gb/s, 3 Port, QSFP/QSFP+



Documents

Product Drawings 1x3 QSFP Kit Assy LP&HS, Networking

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2057042-3_F.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2057042-3_F.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2057042-3_F.3d_stp.zip

English

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Datasheets & Catalog Pages

1773408-1 Pluggable Input/Output Solutions catalog - QSFP section

English

4-1773455-5 - Quick Reference Guide QSFP/QSFP+ Solutions

English

Product Specifications
Product Specification

English