

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



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]
Termination Features         Termination Post & Tail Length       22 mm(.086 in]         Termination Method to Printed Circuit Board       Through Hole - Press-Fit         Mechanical Attachment       Board Mount         Connector Mounting Type       Board Mount         Housing Features       Iteration Press         Cage Material       Nickel Silver         Department       1.45 mm[.057 in]         PB Thickness (Recommended)       1.45 mm[.057 in]         Usage Conditions       Spector Jack         Operating Temperature Range       Sp. 105 °C[.67 – 221 °F]         Operatin/Application       Spr Cable Assembly, OSPP MSA         For Use With Pluggable I/O Products       Spr Pable Assembly, OSPP MSA         Compatibility Rating       Spr Cable Assembly, OSPP MSA         Puggable I/O Applications       Spr Cable Assembly, OSPP MSA         Conducty Standards       Spr Cable Assembly, OSPP MSA         Chauty Standards       Spr Cable Assembly, OSPP MSA         Packaging Features       Spr Cable Assembly, OSPP MSA         Packaging Method       Spr Cable Assembly, Cable Assembly, Cable Assem	Contact Features	
Termination Post & Tail Length         2,2 mm,l.086 inj           Termination Method to Printed Circuit Board         Through Hole. Press Fit           Mechanical Attachment         Board Mount           Connector Mounting Type         Board Mount           Housing Features         Nickel Silver           Cage Material         Nickel Silver           PGB Thickness (Recommended)         1.45 mm,l.057 inj           Operating Temperature Range         -55 - 105 °Cl 67 - 221 °F]           Operating Temperature Range         SSFP Cable Assembly, QSFP MSA           Operatin/Application         SSFP Cable Assembly, QSFP MSA           Carcuit Applications         Signal           Industry Standards         Signal           Industry Standards         Signal           Packaging Method         Box & Tray           Packaging Method         Box & Tray	PCB Contact Termination Area Plating Material	Tin
Termination Method to Printed Circuit Board       Through Hole - Press-Fit         Mechanical Attachment       Board Mount         Connector Mounting Type       Board Mount         Housing Features       Nickel Silver         Cage Material       Nickel Silver         Dimensions       145 mm (057 in)         PGB Thickness (Recommended)       145 mm (057 in)         Operating Temperature Range       - 55 - 105 °C[-67 - 221 °F]         Operating Temperature Range       - 55 - 105 °C[-67 - 221 °F]         Operating Temperature Range       SFP Cable Assembly, QSFP MSA Compatible Transceiver         Progable I/O Applications       Signal         Circuit Application       Signal         Put gabble I/O Applications       Signal         Circuit Application       Signal         Packaging Method       Box & Tray         Packaging Method       Box & Tray         Packaging Method       Signal Gastert         EMI Containment Feature Type       Customer Applied Gasket	Termination Features	
Attachment       Board Mount         Connector Mounting Type       Board Mount         Housing Features       Nickel Silver         Cage Material       Nickel Silver         Dimensions       1.45 mm[.057 in]         Differentiations       1.45 mm[.057 in]         Usage Conditions       55 – 105 °C[-67 – 221 °F]         Operating Temperature Range       65 – 105 °C[-67 – 221 °F]         Operating Temperature Range       SEPF - Stacked Belly-to-Belly         Operation/Applications       SEPF - Stacked Belly-to-Belly         Puggable I/O Applications       Signal         Circuit Applications       Signal         Out Flammability Rating       UL 94V 0         Packaging Method       Box & Tray         Packaging Method       Box & Tray	Termination Post & Tail Length	2.2 mm[.086 in]
Connector Mounting Type         Board Mount           Housing Features         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]           Operating Temperature Range         SFP Cable Assembly, OSFP MSA           Compatible I/O Application         SFP Cable Assembly, OSFP MSA           Circuit Applications         SFP I Stacked Belly-to-Belly           Circuit Applications         Signal           UL Flammability Rating         UL 94V-0           Packaging Method         Box & Tray           Packaging Method         Box & Tray           Pill Containment Feature Type         Customer Applied Gasket           Included Lightpipe         Yes	Termination Method to Printed Circuit Board	Through Hole - Press-Fit
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	
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       SFP Cable Assembly, OSFP MSA         Pluggable I/O Applications       SFP Cable Assembly, OSFP MSA         Circuit Applications       SFP Stacked Belly-to-Belly         Circuit Application       Signal         IU Flammability Rating       U 94V-0         Packaging Method       Box & Tray         Phackaging Method       Box & Tray         FMI Containment Feature Type       Customer Applied Gasket         Included Lightpipe       Yes	Cage Material	Nickel Silver
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

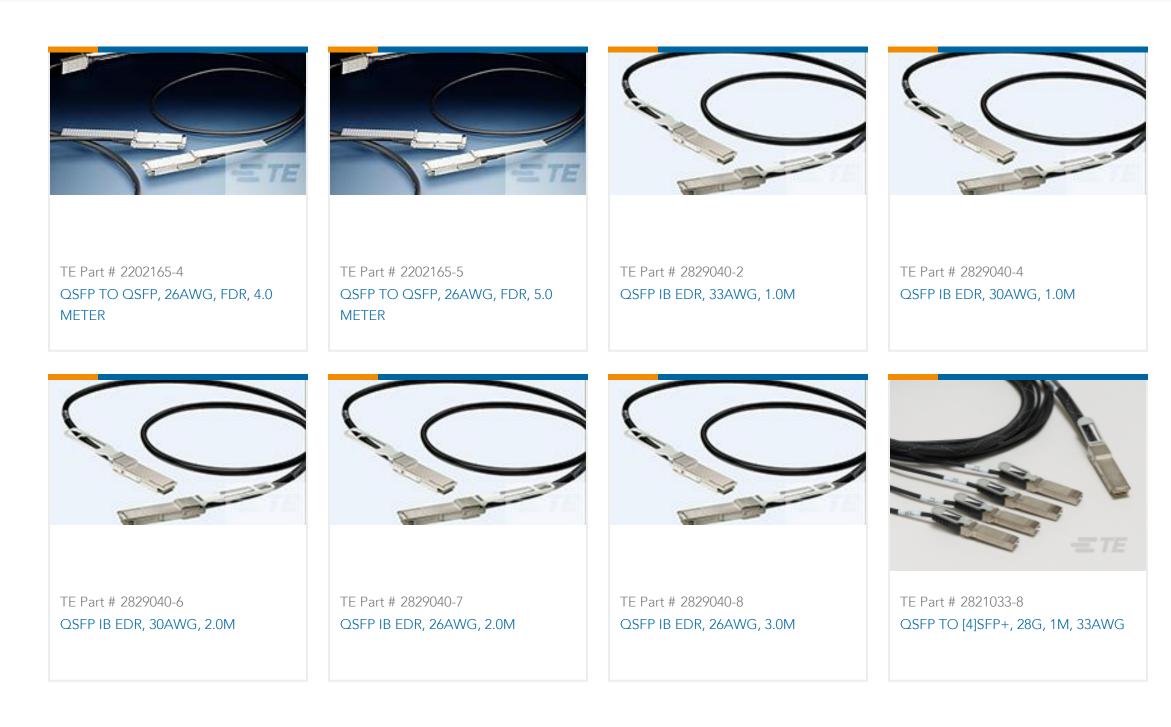
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight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

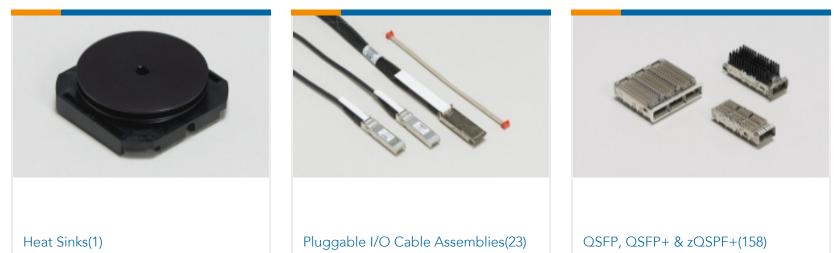


QSFP, QSFP+ & zQSPF+, Cage Assembly, 1 x 3, Customer Applied Gasket, Included Lightpipe, Standard, Data Rate (Max) 14 Gb/s, 3 Port, QSFP/QSFP+

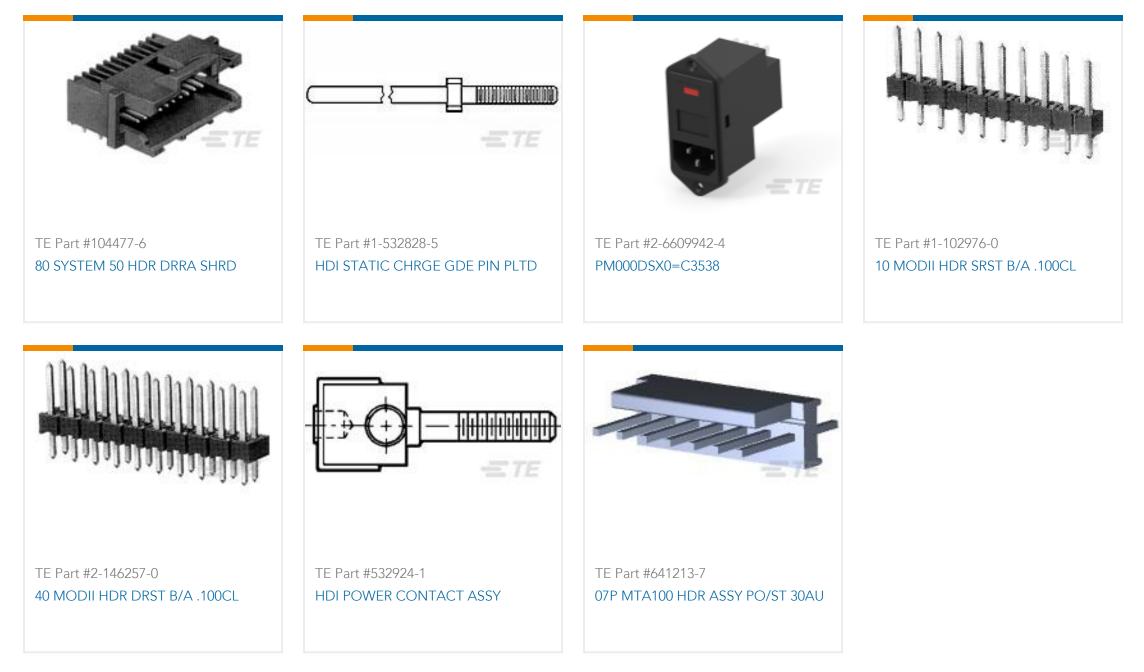




# Also in the Series **OSFP/OSFP+**



# 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

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

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