# 2214574-3 ACTIVE

#### QSFP/QSFP+

TE Internal #: 2214574-3

QSFP, QSFP+ & zQSPF+, Cage Assembly with Integrated

Connector, 2 x 2, Elastomeric Gasket, Included Lightpipe,

Standard, QSFP/QSFP+

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



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

Port Matrix Configuration: 2x2

EMI Containment Feature Type: Elastomeric Gasket

Included Lightpipe: Yes
Enhancements: Standard

#### **Features**

### **Product Type Features**

Form Factor	QSFP+
Cage Type	Stacked
Pluggable I/O Product Type	Cage Assembly with Integrated Connector
Connector System	Cable-to-Board
Sealable	Yes
Connector & Contact Terminates To	Printed Circuit Board

#### **Configuration Features**

Port Matrix Configuration	2 x 2
Number of Ports	4
Lightpipe Configuration	All Four Left Indicator Up
Number of Rear EONs per Port Column	0
Number of Positions	152

#### **Electrical Characteristics**

Data Pata (Max)	14 Gb/s
Data Rate (Max)	14 00/5

#### **Contact Features**

Contact Mating Area Plating Material Thickness	.76 μm[30 μin]
Contact Mating Area Plating Material	Gold



PCB Contact Termination Area Plating Material  Termination Features  Termination Features  Termination Method to Printed Circuit Board  Mechanical Attachment  Connector Mounting Type Board Mount  Housing Features  Cage Material Nickel Silver  Centerline (Ptch) 8 mm (.032 in)  Dimensions  PCB Thickness (Recommended) 1.57 mm [.062 in]  Usage Conditions  Operating Temperature Range -55 = 105 "Cl-67 = 221 "F   Operating Temperature Range  For Use With Pluggable I/O Products  Circuit Application  Signal  Industry Standards  UL Planmability Rating  Packaging Features  Packaging Features  Packaging Features  Packaging Features  Packaging Features  Packaging Method  Box & Tray  Cher  Financements  Standard	Contact Underplating Material	Tin
Termination Features  Termination Post & Tail Length 2 mm[.079 in]  Termination Method to Printed Circuit Board Through Hole - Press Fit  Mechanical Attachment  Connector Mounting Type Board Mount  Housing Features  Cage Material Nickel Silver Centerline (Pitch) .8 mm[.032 in]  Dimensions  PCR Thickness (Recommended) 1.57 mm[.062 in]  Usage Conditions  Operating Temperature Range 55 – 105 °C[ 67 – 221 °F]  Operation/Application  Heat Sink Compatible No For Use With Pluggable I/O Products Compatible Transceiver  Pluggable I/O Applications  UL Plammability Rating UL 94V-0  Peckaging Features  Packaging Mathod Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket Included Lightpipe Yes		
Termination Post & Tail Length Termination Method to Printed Circuit Board Through Hole - Press Fit  Mechanical Attachment Connector Mounting Type Board Mount  Housing Features  Cage Material Nickel Silver Centerline (Pitch) 8 mm[.032 in]  Dimensions  PCB Thickness (Recommended) 1.57 mm[.062 in]  Usage Conditions Operating Temperature Range -55 - 105 °C[.67 - 221 °F]  Operation/Application  Heat Sink Compatible No For Use With Pluggable I/O Products OSFP Cable Assembly, OSFP MSA Compatible Transceiver Pluggable I/O Applications SI P+ Stacked Belly-to-Belly Circuit Application Industry Standards UL Flammability Rating UL 94V-0  Packaging Features Packaging Method Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket Included Lightpipe		3010
Through Hole - Press-Fit  Mechanical Attachment  Connector Mounting Type Board Mount  Housing Features  Cage Material Nickel Silver Centerline (Pitch) 8 mm[.032 in]  Dimensions  PCB Thickness (Recommended) 1.57 mm[.062 in]  Usage Conditions  Operating Temperature Range -55 – 105 °C[-67 – 221 °T]  Operation/Application  Heat Sink Compatible For Use With Pluggable I/O Products OSFP Cable Assembly, OSFP MSA Compatible Transceiver  Pluggable I/O Application  Signal  Industry Standards  UI Flammability Rating UI 94V-0  Packaging Features  Packaging Method Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket Included Lightpipe Yes		2 may = [ 070 : m]
Mechanical Attachment  Connector Mounting Type Board Mount  Housing Features  Cage Material Nickel Silver  Centerline (Pitch) 8 mm[.032 in]  Dimensions  PCB Thickness (Recommended) 1.57 mm[.062 in]  Usage Conditions  Operating Temperature Range -55 – 105 °C[-67 – 221 °F]  Operating Temperature Range No  Operating Volume Silve No  For Use With Pluggable I/O Products OSFP Cable Assembly, OSFP MSA Compatible Transceiver  Pluggable I/O Application Signal  Industry Standards  UL Flammability Rating UL 94V-0  Packaging Features  Packaging Method Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket Included Lightpipe Yes		
Connector Mounting Type  Housing Features  Cage Material Nickel Silver  Centerline (Pitch) 8 mm[.032 in]  Dimensions  PCB Thickness (Recommended) 1.57 mm[.062 in]  Usage Conditions  Operating Temperature Range -55 – 105 °C[-67 – 221 °F]  Operation/Application  Heat Sink Compatible No For Use With Pluggable I/O Products OSFP Cable Assembly, OSFP MSA Compatible Transceiver  Pluggable I/O Applications SFP+ Stacked Belly to Belly  Circuit Application Signal  Industry Standards  UI. 94V 0  Packaging Features  Packaging Method Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket Included Lightpipe Yes		inrough Hole - Press-Fit
Housing Features  Cage Material Nickel Silver  Centerline (Pitch) .8 mm[.032 in]  Dimensions  PCB Thickness (Recommended) 1.57 mm[.062 in]  Usage Conditions  Operating Temperature Range -55 – 105 °C[-67 – 221 °F]  Operating Temperature Range No Products  For Use With Pluggable I/O Products Oser Accompatible No Products Oser Accompatible Transceiver  Pluggable I/O Application SFP+ Stacked Belly-to-Belly  Circuit Application Signal Industry Standards  UL Flammability Rating UL 94V-0  Packaging Features  Packaging Method Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket Included Lightpipe Yes	Mechanical Attachment	
Cage Material Centerline (Pitch) .8 mml.032 in]  Dimensions  PCB Thickness (Recommended) 1.57 mml.062 in]  Usage Conditions  Operating Temperature Range -55 – 105 °Cl-67 – 221 °F]  Operation/Application  Heat Sink Compatible No For Use With Pluggable I/O Products OSFP Cable Assembly, OSFP MSA Compatible Transceiver  Pluggable I/O Applications SFP+ Stacked Belly-to-Belly Circuit Application Signal Industry Standards  UL Flammability Rating UL 94V 0  Packaging Features  Packaging Method Box & Tray  Other  EMI Containment Feature Type Included Lightpipe Yes	Connector Mounting Type	Board Mount
Centerline (Pitch)  Dimensions  PCB Thickness (Recommended)  1.57 mm[.062 in]  Usage Conditions  Operating Temperature Range  Operation/Application  Heat Sink Compatible  No  For Use With Pluggable I/O Products  OsFP Cable Assembly, OSFP MSA Compatible Transceiver  Pluggable I/O Applications  Signal  Industry Standards  UL Flammability Rating  UL 94V-0  Packaging Features  Packaging Method  Box & Tray  Other  EMI Containment Feature Type  Included Lightpipe  Yes	Housing Features	
PCB Thickness (Recommended)  PCB Thickness (Recommended)  Usage Conditions  Operating Temperature Range  Operation/Application  Heat Sink Compatible  For Use With Pluggable I/O Products  OSFP Cable Assembly, OSFP MSA Compatible Transceiver  Pluggable I/O Applications  SFP+ Stacked Belly-to-Belly  Circuit Application  Industry Standards  UL Flammability Rating  UL 94V-0  Packaging Features  Packaging Method  Box & Tray  Other  EMI Containment Feature Type  Included Lightpipe  Yes	Cage Material	Nickel Silver
PCB Thickness (Recommended)  Usage Conditions  Operating Temperature Range  Operation/Application  Heat Sink Compatible  No  For Use With Pluggable I/O Products  Osperation Signal  Industry Standards  UL Flammability Rating  Packaging Features  Packaging Method  Other  EMI Containment Feature Type Included Lightpipe  1.57 mm[.062 in]  No  1.57 mm[.062 in]  No  1.57 mm[.062 in]  Value (1.64 in)  Volue (1.64 in)	Centerline (Pitch)	.8 mm[.032 in]
Usage Conditions  Operating Temperature Range	Dimensions	
Operating Temperature Range -55 – 105 °C[-67 – 221 °F]  Operation/Application  Heat Sink Compatible No  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 Flammability Rating UL 94V-0  Packaging Features  Packaging Method Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket  Included Lightpipe Yes	PCB Thickness (Recommended)	1.57 mm[.062 in]
Operation/Application         Heat Sink Compatible       No         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       Packaging Method       Box & Tray         Other       EMI Containment Feature Type       Elastomeric Gasket         Included Lightpipe       Yes	Usage Conditions	
Heat Sink Compatible  For Use With Pluggable I/O Products  OSFP Cable Assembly, OSFP MSA Compatible Transceiver  Pluggable I/O Applications  SFP+ Stacked Belly-to-Belly  Circuit Application  Signal  Industry Standards  UL Flammability Rating  UL 94V-0  Packaging Features  Packaging Method  Box & Tray  Other  EMI Containment Feature Type  Elastomeric Gasket Included Lightpipe  Yes	Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
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 Flammability Rating  UL 94V-0  Packaging Features  Packaging Method  Box & Tray  Other  EMI Containment Feature Type  Elastomeric Gasket  Included Lightpipe  Yes	Operation/Application	
Pluggable I/O Applications SFP+ Stacked Belly-to-Belly Circuit Application Signal Industry Standards UL Flammability Rating UL 94V-0 Packaging Features Packaging Method Box & Tray Other  EMI Containment Feature Type Included Lightpipe Elastomeric Gasket Included Lightpipe Yes	Heat Sink Compatible	No
Circuit Application Signal  Industry Standards  UL Flammability Rating UL 94V-0  Packaging Features  Packaging Method Box & Tray  Other  EMI Containment Feature Type Elastomeric Gasket Included Lightpipe Yes	For Use With Pluggable I/O Products	
Industry Standards  UL Flammability Rating  UL 94V-0  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  Packaging Features  Packaging Method  Box & Tray  Other  EMI Containment Feature Type  Included Lightpipe  Yes	Circuit Application	Signal
Packaging Features  Packaging Method  Box & Tray  Other  EMI Containment Feature Type  Elastomeric Gasket  Included Lightpipe  Yes	Industry Standards	
Packaging Method  Other  EMI Containment Feature Type  Included Lightpipe  Box & Tray  Elastomeric Gasket  Yes	UL Flammability Rating	UL 94V-0
Other  EMI Containment Feature Type  Included Lightpipe  Yes	Packaging Features	
EMI Containment Feature Type  Included Lightpipe  Elastomeric Gasket  Yes	Packaging Method	Box & Tray
Included Lightpipe Yes	Other	
	EMI Containment Feature Type	Elastomeric 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: JUNE 2023 (235) 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-on-reach

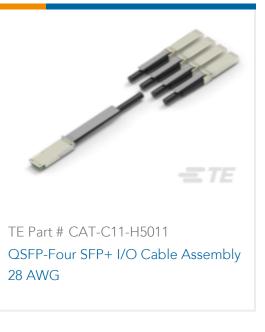
### Compatible Parts





















TE Part # 2202165-5 QSFP TO QSFP, 26AWG, FDR, 5.0 **METER** 



### Also in the Series | QSFP/QSFP+









### Customers Also Bought







### **Documents**

#### **Product Drawings**

2X2 QSFP CAGE AND PT CONNECTOR ASSEMBLY

English

#### **CAD Files**

3D PDF

3D

**Customer View Model** 

ENG\_CVM\_CVM\_2214574-3\_B.2d\_dxf.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_2214574-3\_B.3d\_igs.zip

English

**Customer View Model** 

ENG\_CVM\_CVM\_2214574-3\_B.3d\_stp.zip

QSFP, QSFP+ & zQSPF+, Cage Assembly with Integrated Connector, 2 x 2, Elastomeric Gasket, Included Lightpipe, Standard, QSFP/QSFP+



English

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

**Product Specifications** 

**Application Specification** 

English