

**SFP28**

TE Internal #: 2169678-5

SFP, SFP+ & zSFP+, Cage Assembly with Integrated Connector,  
Data Rate (Max) 16 Gb/s, Elastomeric Gasket, SFP+, With  
Lightpipe, 2 x 5

[View on TE.com >](#)

Connectors &gt; Pluggable IO Connectors &amp; Cages &gt; SFP, SFP+ &amp; zSFP+ &gt; SFP+ Stacked Cage Assemblies

Pluggable I/O Product Type: **Cage Assembly with Integrated Connector**Data Rate (Max): **16 Gb/s**EMI Containment Feature Type: **Elastomeric Gasket**Pluggable I/O Applications: **SFP+**Lightpipe Options: **With Lightpipe**[All SFP+ Stacked Cage Assemblies \(125\)](#)**Features****Product Type Features**

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

**Configuration Features**

Port Matrix Configuration	2 x 5
Lightpipe Configuration	Four Triangular (Inner & Outer)
Number of Ports	10
Number of Positions	200

**Electrical Characteristics**

Data Rate (Max)	16 Gb/s
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**Contact Features**

Tail Plating Material	Tin
Contact Mating Area Plating Material Thickness	.76 $\mu$ m



Contact Mating Area Plating Material	Gold or Gold Flash over Palladium Nickel
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### Termination Features

Termination Post & Tail Length	3 mm[.118 in]
Termination Method to Printed Circuit Board	Through Hole - Press-Fit

### 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)	1.5 mm[.059 in]
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### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-65 – 221 °F]
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### Operation/Application

Heat Sink Compatible	No
Pluggable I/O Applications	SFP+
Circuit Application	Signal

### Industry Standards

UL Flammability Rating	UL 94V-0
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### Packaging Features

Packaging Method	Package
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### Other

EMI Containment Feature Type	Elastomeric Gasket
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### 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: JUNE 2022 (224)



Candidate List Declared Against: JUNE 2022 (224)  
 SVHC > Threshold:  
 Octamethylcyclotetrasiloxane (D4) (.11% in Component Part)

**Article Safe Usage Statements:**  
 Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.

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 # CAT-C11-H50626  
 SFP+ to SFP+ I/O Cable Assembly: 30 AWG

TE Part # CAT-C11-N490333  
 QSFP28-Four SFP+ Cable Assembly: 30 AWG

TE Part # CAT-C11-N490325  
 QSFP28-Four SFP+ Cable Assembly: 26 AWG

TE Part # 2334985-2  
 SFP28 DIRECT ATTACH CA, 1M, 32AWG

TE Part # CAT-C11-N4901114  
 SFP28 to SFP28 Cable Assembly: 30 AWG

TE Part # CAT-C11-N49011  
 SFP28 to SFP28 Cable Assembly: 26 AWG

TE Part # CAT-Q17-N49011  
 QSFP56-Four SFP56 Cable Assembly: 30 AWG

TE Part # CAT-Q17-N490333  
 QSFP56-Four SFP56 Cable Assembly: 26 AWG



## Documents

### Product Drawings

[SFP+assy 2x5 Gasket 4 LP Sn](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2169678-5\\_B.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2169678-5\\_B.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2169678-5\\_B.3d\\_stp.zip](#)

English

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### Product Specifications



### Application Specification

English

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### Instruction Sheets

[Instruction Sheet \(U.S.\)](#)

English

[Instruction Sheet \(U.S.\)](#)

English