



TE Internal #: 2299056-1  
 SFP+, Cage Assembly, Signal, Operating Temperature Range -55 – 105 °C [-67 – 221 °F], Data Rate (Max) 16 Gb/s, 1 Ports

[View on TE.com >](#)

Connectors > Pluggable IO Connectors & Cages



Pluggable I/O Product Type: **Cage Assembly**  
 Sealable: **No**  
 Circuit Application: **Signal**  
 Operating Temperature Range: **-55 – 105 °C [-67 – 221 °F]**  
 Data Rate (Max): **16 Gb/s**

### Features

#### Product Type Features

Pluggable I/O Product Type	Cage Assembly
Sealable	No
Form Factor	SFP+
Cage Type	Single
Thermal Accessory Type Included	Heat Sink

#### Operation/Application

Circuit Application	Signal
Pluggable I/O Applications	SFP+
Heat Sink Compatible	Yes

#### Usage Conditions

Operating Temperature Range	-55 – 105 °C[-67 – 221 °F]
-----------------------------	----------------------------

#### Electrical Characteristics

Data Rate (Max)	16 Gb/s
-----------------	---------

#### Configuration Features

Number of Ports	1
Port Matrix Configuration	1 x 1

#### Other

Included Lightpipe	No
--------------------	----



EMI Containment Feature Type	Internal/External EMI Springs
------------------------------	-------------------------------

EU RoHS Compliance	Compliant
--------------------	-----------

EU ELV Compliance	Compliant
-------------------	-----------

### Body Features

Heat Sink Style	Slug
-----------------	------

Heat Sink Finish	Electroless Nickel
------------------	--------------------

Heat Sink Height	3.5 mm[.137 in]
------------------	-----------------

Heat Sink Height Class	Custom
------------------------	--------

### Termination Features

Termination Method to PCB	Through Hole - Press-Fit
---------------------------	--------------------------

Termination Post & Tail Length	3 mm[.118 in]
--------------------------------	---------------

### Housing Features

Cage Material	Nickel Silver Alloy
---------------	---------------------

### Dimensions

PCB Thickness (Recommended)	1.5 mm[.059 in]
-----------------------------	-----------------

### Packaging Features

Packaging Method	Tray
------------------	------

## 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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
--	---

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 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-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



TE Part # 4-2821224-5  
SFP56 DIRECT ATTACH CA, 3M,  
26AWG



TE Part # 4-2334985-2  
SFP56 DIRECT ATTACH CA, 1M,  
32AWG



TE Part # 4-2821222-5  
SFP56 DIRECT ATTACH CA, 2M,  
30AWG



TE Part # 2821033-8  
QSFP TO [4]SFP+, 28G, 1M, 33AWG

## Customers Also Bought



TE Part #5748873-1  
AMP III PLUG 25P RA 590 THD IN



TE Part #1-1462037-8  
Standard Signal Relay 2 Form C,2 CO Cont



TE Part #1462051-2  
HF353=50OHM140MW 5V MONO



TE Part #1888247-1  
20 POS SMT CONN, SFP/SFP+, 30A



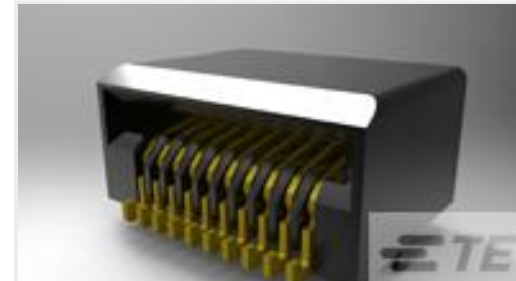
TE Part #2309409-2  
DDR4 SODIMM 260P 5.2H STD



TE Part #6-1617813-3  
TD229-5003P= TDFR 500 S M83726/29-5003P



TE Part #1888901-1  
SFP+ EMI Plug



TE Part #2170088-1  
ZSFP+ Connector,30u"



TE Part #1-2842102-0  
10P,2MM,BRK HDR,SRVT,SMD,0.1AU, TR W/CAP

## Documents

### Product Drawings

[SFP+ 1X1 CAGE ASSEMBLY AND CONN, PRESS-F](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_2299056-1\\_A.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2299056-1\\_A.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_2299056-1\\_A.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Product Specifications

2299056-1

SFP+, Cage Assembly, Signal, Operating Temperature Range -55 – 105 °C [-67 – 221 °  
F], Data Rate (Max) 16 Gb/s, 1 Ports



## Product Specification

English