



QSFP/QSFP+

TE Internal #: 2085945-1

QSFP, QSFP+ & zQSFP+, Cage Assembly with Integrated Connector, 2 x 1, Elastomeric Gasket, Included Lightpipe, Standard, QSFP/QSFP+

[View on TE.com >](#)

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



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

Port Matrix Configuration: **2 x 1**

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 1 |
| Number of Ports | 2 |
| Lightpipe Configuration | Outer Left Indicator Up |
| Number of Rear EONs per Port Column | 0 |
| Number of Positions | 76 |

Electrical Characteristics

| | |
|-----------------|---------|
| Data Rate (Max) | 14 Gb/s |
|-----------------|---------|

Contact Features

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



| | |
|-------------------------------|-----|
| Contact Underplating Material | Tin |
|-------------------------------|-----|

| | |
|---|------|
| PCB Contact Termination Area Plating Material | Gold |
|---|------|

Termination Features

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|--------------------------------|-----------------|
| Termination Post & Tail Length | 2.05 mm[.08 in] |
|--------------------------------|-----------------|

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|---|--------------------------|
| 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

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|-----------------------------|----------------------------|
| 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 |
|--------------------|-----|

| | |
|--------------|----------|
| Enhancements | Standard |
|--------------|----------|

Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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

| | | | |
|--|--|--|---|
|  <p>TE Part # CAT-C11-H501114 QSFP to QSFP I/O Cable Assembly: 30 AWG</p> |  <p>TE Part # CAT-C11-H50111 QSFP-Four SFP+ I/O Cable Assembly 30 AWG</p> |  <p>TE Part # 1888810-2 EMI/Dust Cover,XFP And QSFP</p> |  <p>TE Part # 2110819-1 QSFP+ Enh EVERCLEAR PT Conn</p> |
|  <p>TE Part # CAT-C11-H5011 QSFP-Four SFP+ I/O Cable Assembly 28 AWG</p> |  <p>TE Part # CAT-C11-H5011142 QSFP to QSFP I/O Cable Assembly: 33 AWG</p> |  <p>TE Part # 2053638-4 C/A, QSFP, 4M, P1-P2, UNEQUALIZED</p> |  <p>TE Part # 2215001-1 KIT, SEATING TOOL, QSFP+,2X1</p> |



TE Part # 2217070-1
KIT, EXTRACTION TOOL, QSFP+



TE Part # 2202165-4
QSFP TO QSFP, 26AWG, FDR, 4.0 METER



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



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

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



Heat Sinks(1)



Light Pipes(8)



Pluggable I/O Cable Assemblies(23)



QSFP, QSFP+ & zQSFP+(158)

Customers Also Bought



TE Part #5-1393788-5
V23079D1001B301



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



TE Part #5787962-1
.8MM CHAMP STACK RCPT ASSY



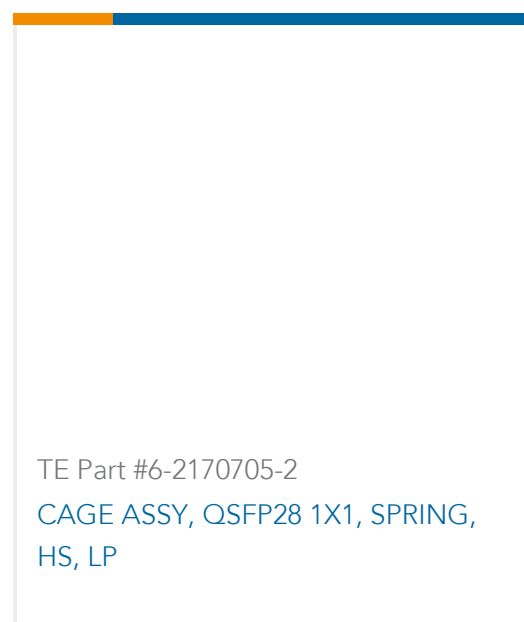
TE Part #1469265-5
UPM R/A KEYED GUIDE PIN



TE Part #1571294-2
SWITCH,TACT,SMT,SEALED,T&R



TE Part #1888971-4
QSFP TB CAGE ASSY, W/LP, NO HS



TE Part #6-2170705-2
CAGE ASSY, QSFP28 1X1, SPRING, HS, LP



TE Part #2360945-3
RCPT CONN R/A SMT 76 POSN QSFP-DD, W/ PI

Documents

Product Drawings

[QSFP+ Assy, 2x1, Gskt, 2LP-Outr, Sn EONs](#)

English

CAD Files

[3D PDF](#)

[3D](#)



Customer View Model

[ENG_CVM_CVM_2085945-1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2085945-1_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2085945-1_A.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English