



TE Internal #: 2477166-1

SMC Connector, Jack, 50 ohm, Threaded, 0 – 10 GHz, Cable-to-Panel, 1 Position, Wire & Cable, Panel Mount, -65 – 165 °C [-85 – 329 °F], Solder

[View on TE.com >](#)

Connectors > RF Connectors > Coax Connectors



RF Interface: **SMC**

RF Connector Style: **Jack**

RF Connector Mated Outer Diameter (Approximate): **6.35 mm [.25 in]**

Impedance: **50 Ω**

RF Connector Coupling Mechanism: **Threaded**

Features

Product Type Features

| | |
|-----------------------------------|----------------|
| RF Interface | SMC |
| RF Connector Style | Jack |
| Connector System | Cable-to-Panel |
| Sealable | No |
| Connector & Contact Terminates To | Wire & Cable |

Configuration Features

| | |
|----------------------------|---|
| Number of Positions | 1 |
| Number of Coaxial Contacts | 1 |

Electrical Characteristics

| | |
|-----------|------|
| Impedance | 50 Ω |
|-----------|------|

Body Features

| | |
|-----------------------------|----------|
| Body Underplating Material | Nickel |
| Cable Connector Orientation | Straight |
| Body Material | Brass |



| | |
|-----------------------|--------|
| Body Material Finish | Plated |
| Body Plating Material | Gold |

Contact Features

| | |
|---|---------------------|
| Outer Contact Plating Material | Gold (Au) |
| RF Connector Contact Configuration | Captivated Contacts |
| RF Connector Center Contact Underplating Material | Nickel |
| | 50 µin |
| RF Connector Center Contact Plating Material | Gold (Au) |
| RF Connector Center Contact Material | Brass |

Termination Features

| | |
|------------------------------------|--------|
| Termination Method to Wire & Cable | Solder |
|------------------------------------|--------|

Mechanical Attachment

| | |
|---------------------------------|--------------------|
| Panel Mount Feature Type | Lockwasher and Nut |
| Panel Attachment Style | Rear Mount |
| RF Connector Coupling Mechanism | Threaded |
| Connector Mounting Type | Panel Mount |
| RF Contact Captivation Method | Mechanical |
| Detent | Without |

Dimensions

| | |
|---|-----------------|
| RF Connector Mated Outer Diameter (Approximate) | 6.35 mm[.25 in] |
|---|-----------------|

Usage Conditions

| | |
|-----------------------------|----------------------------|
| Operating Temperature Range | -65 – 165 °C[-85 – 329 °F] |
|-----------------------------|----------------------------|

Operation/Application

| | |
|---------------------|------------|
| Operating Frequency | 0 – 10 GHz |
|---------------------|------------|

Packaging Features

| | |
|--------------------|-----|
| Packaging Quantity | 1 |
| Packaging Method | Bag |

Other

| | |
|---------------------|------|
| Dielectric Material | PTFE |
|---------------------|------|

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>



| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant with Exemptions |
| EU ELV Directive 2000/53/EC | Not Yet Reviewed |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (3.42% in Component Part) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. 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 | Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free |
| Solder Process Capability | Not reviewed 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 Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



TE Part # 2477171-1
SMC Plug Str Crimp RG174 188A 316 6 GHz



TE Part # 2477172-1
SMC Plug RA Crimp RG174 188A 316 6 GHz

Documents

Product Drawings
SMC Jack Str Rear BHD Solder Cup 10 GHz



English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2477166-1_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2477166-1_1.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_2477166-1_1.3d_igs.zip

English

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

Datasheets & Catalog Pages

SMC-Connectors-Product-Extension-en-flyer

English

Product Specifications

Product Specification

English