

413985-3 ✓ ACTIVE

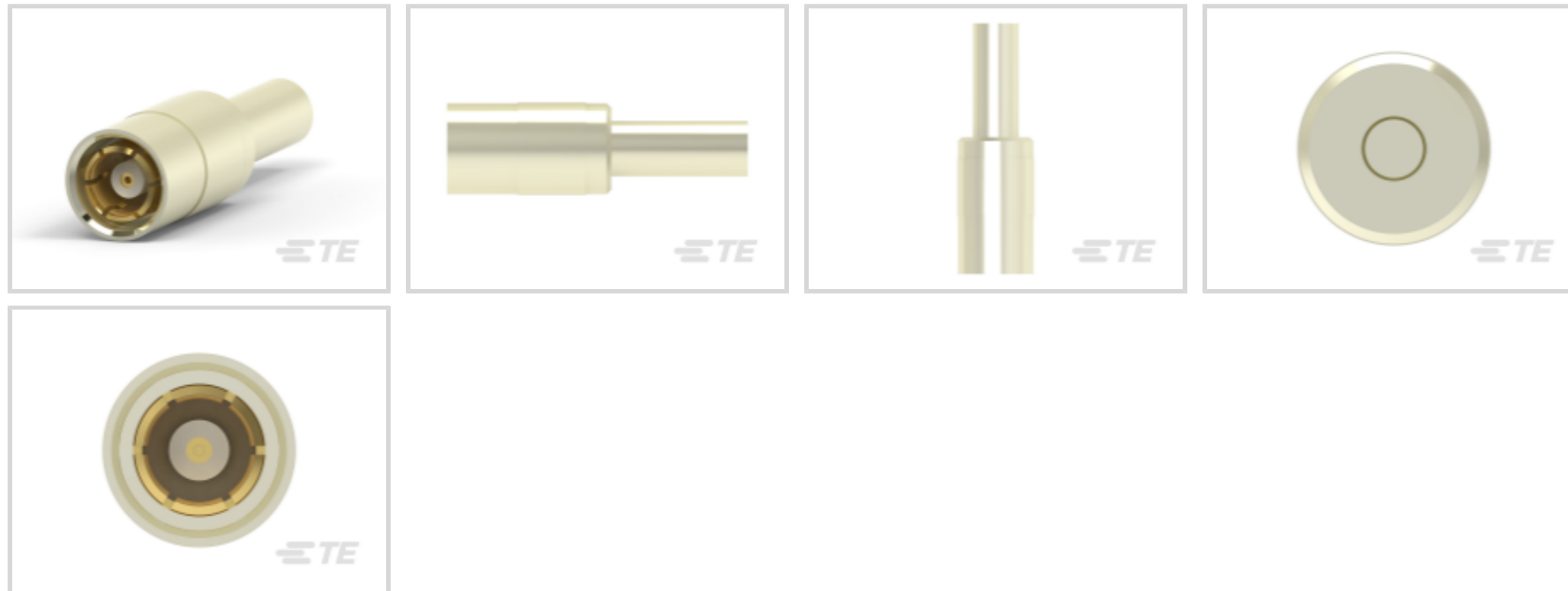
TE Internal #: 413985-3

SMB RF Interface, Plug, 50  $\Omega$ , RG 316 / RG 174 / RG 188, Snap-Fit, 4 GHz Operating Frequency, Cable-to-Cable, 1 Position, Wire & Cable

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Connectors > RF Connectors > Coax Connectors > SMB Connector: Plug, Mated Outer Dia. 4.75mm, 50 Ohm



RF Interface: **SMB**

RF Connector Style: **Plug**

RF Connector Mated Outer Diameter (Approximate): **4.75 mm [ .187 in ]**

Impedance: **50  $\Omega$**

Compatible With RF Cable Type: **RG 174, RG 188, RG 316**

[All SMB Connector: Plug, Mated Outer Dia. 4.75mm, 50 Ohm \(20\)](#)

## Features

### Product Type Features

|                                   |                        |
|-----------------------------------|------------------------|
| Connector Shape                   | Circular               |
| Connector Product Type            | Connector Assembly     |
| RF Interface                      | SMB                    |
| RF Connector Style                | Plug                   |
| Compatible With RF Cable Type     | RG 174, RG 188, RG 316 |
| Connector System                  | Cable-to-Cable         |
| Sealable                          | No                     |
| Connector & Contact Terminates To | Wire & Cable           |

### Configuration Features

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

### Electrical Characteristics

|           |             |
|-----------|-------------|
| Impedance | 50 $\Omega$ |
|-----------|-------------|



### Body Features

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

### Contact Features

|   |                  |
|---|------------------|
| RF Connector Center Contact Underplating Material | Nickel           |
| RF Connector Center Contact Plating Material      | Gold             |
| RF Connector Center Contact Material              | Beryllium Copper |

### Termination Features

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

### Mechanical Attachment

|                                 |                            |
|---------------------------------|----------------------------|
| RF Connector Coupling Mechanism | Snap-Fit                   |
| Connector Mounting Type         | Cable Mount (Free-Hanging) |
| RF Contact Captivation Method   | Mechanical                 |
| Detent                          | Without                    |

### Dimensions

|   |                   |
|---|-------------------|
| RF Connector Mated Outer Diameter (Approximate) | 4.75 mm [.187 in] |
|---|-------------------|

### Usage Conditions

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

### Operation/Application

|                     |       |
|---------------------|-------|
| Operating Frequency | 4 GHz |
|---------------------|-------|

### Packaging Features

|                  |        |
|------------------|--------|
| Packaging Method | Carton |
|------------------|--------|

### Other

|                                |                  |
|--------------------------------|------------------|
| Outer Contact Plating Material | Gold over Nickel |
| Additional Features            | Solderless       |
| Grade                          | Mil-Type         |
| Dielectric Material            | PTFE             |

### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://www.te.com)>



|   |  |
|---|--|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions  |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions  |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold   |
| EU REACH Regulation (EC) No. 1907/2006        | <p>Current ECHA Candidate List: JUNE 2023 (235)</p> <p>Candidate List Declared Against: JUNE 2023 (235)</p> <p>SVHC &gt; Threshold:<br/>Pb (3.7% in Component Part)</p> <p><b>Article Safe Usage Statements:</b><br/>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.</p> |
| Halogen Content                               | Low Bromine/Chlorine - Br and Cl < 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-884-SMBF50  
SMB Connector: Plug, Mated Outer Dia. 4.75mm, 50 Ohm




TE Part # CAT-884-SMBV50  
SMB Connector: Jack, Vertical Mount, Mated Outer Dia. 4.75mm, 50 Ohm



TE Part # CAT-884-SMBMRA50  
SMB Connector: Jack, Right-Angle Mount, Mated Outer Dia. 4.75mm



TE Part # CAT-884-SMBM50  
SMB Connector: Male (Jack), Mated Outer Dia. 4.75mm, 50 Ohm



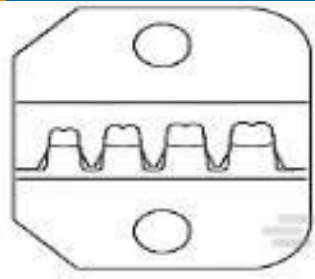
TE Part # CAT-884-SMBMSF50  
SMB RF Connector: Jack, Snap Fit, 50 Ohm



TE Part # 5414338-1  
PLUG, RTANG, SMB/PCB



TE Part # 228553-1  
SMB COMML BLKHD ADAPTER



TE Part # 58483-1  
TRIPLE HEX DIE ASSY SMB



TE Part # 58499-1  
AMP PRO-CRIMPER ASSEMBLY

### Customers Also Bought



TE Part #T4113001041-000  
M12, MALE, RA, A CODE, 4P, PG7, GOLD



TE Part #T4141012041-000  
M12, REAR MOUNTING, FEMALE, A CODE, 4P



TE Part #5227161-3  
RTANG JK W/MTG PINS, BNC PCB



TE Part #440053-5  
2.5MM, HDR, 5POS, R/A



TE Part #4-1825059-1  
ADF08ST04=DIP SWT, FLUSH, SMT-GW




TE Part #1-1337451-0  
BNC BHSkt 50Ohm Silver Pltd



TE Part #5-103944-2  
5X3 MTE SHRD PIN SR POL .100



TE Part #3576550001  
HTCM-SCE-1/4-4H-9



TE Part #CJ6398-000  
202K132-25/225-CS-2065-0

### Documents



### CAD Files

#### 3D PDF

3D

#### Customer View Model

[ENG\\_CVM\\_CVM\\_413985-3\\_P.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_413985-3\\_P.3d\\_igs.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_413985-3\\_P.3d\\_stp.zip](#)

English

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

### Datasheets & Catalog Pages

#### SMB Connectors

English

### Product Specifications

#### Product Specification

English

#### Connector, 50 Ohm Coaxial SMB Series

English

### Instruction Sheets

#### Instruction Sheet (U.S.)

English