

414002-1 ✓ ACTIVE



## SMB

TE Internal #: 414002-1

SMB Connector, Plug, 50 ohm, RG 174 / RG 188 / RG 316

Compatible With RF Cable Type, Snap-Fit, 4 GHz, Cable-to-Cable,  
1 Position, Wire & Cable, SMB

[View on TE.com >](#)

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 \(11\)](#)

## 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 Ω
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### Body Features

Body Underplating Material	Nickel
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Body Material	Brass
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Body Plating Material	Gold
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### Contact Features

Outer Contact Plating Material	Gold (Au)
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RF Connector Center Contact Underplating Material	Nickel
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RF Connector Center Contact Plating Thickness	.762 μm
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RF Connector Center Contact Plating Material	Gold (Au)
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RF Connector Center Contact Material	Beryllium Copper
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### Termination Features

Termination Method to Wire & Cable	Crimp
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### Mechanical Attachment

RF Connector Coupling Mechanism	Snap-Fit
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RF Contact Captivation Method	Mechanical
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Detent	With
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### Housing Features

Body Orientation	Right Angle
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### Dimensions

RF Connector Mated Outer Diameter (Approximate)	4.75 mm[.187 in]
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### Usage Conditions

Operating Temperature Range	-65 – 85 °C[-85 – 185 °F]
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### Operation/Application

Operating Frequency Range	4 GHz
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### Packaging Features

Packaging Method	Carton
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### Other

Grade	Military
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Dielectric Material	Polytetrafluoroethylene (PTFE)
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## 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	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量超出标准 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (4% in Component Part) <b>Article Safe Usage Statements:</b> 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 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-884-SMBM50 SMB Connector: Male (Jack), Mated Outer Dia. 4.75mm, 50 Ohm</p>	 <p>TE Part # CAT-884-SMBMSF50 SMB RF Connector: Jack, Snap Fit, 50 Ohm</p>	 <p>TE Part # 414963-4 SMB PCB R/A JACK</p>	 <p>TE Part # CAT-884-SMBF50 SMB Connector: Plug, Mated Outer Dia. 4.75mm, 50 Ohm</p>
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TE Part # CAT-884-SMBV50  
SMB Connector: Jack, Vertical Mount, Mated Outer Dia. 4.75mm, 50 Ohm



TE Part # 58483-1  
TRIPLE HEX DIE ASSY SMB

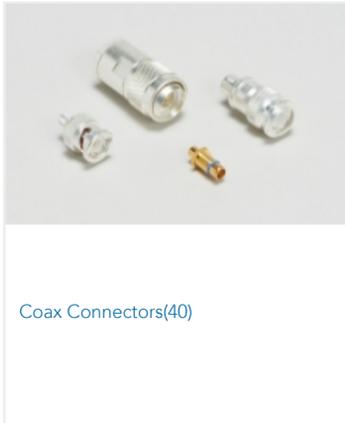


TE Part # CAT-884-SMBMRA50  
SMB Connector: Jack, Right-Angle Mount, Mated Outer Dia. 4.75mm



TE Part # 228553-1  
SMB COMML BLKHD ADAPTER

Also in the Series | **SMB**



Coax Connectors(40)



RF Cable Assemblies(12)

Customers Also Bought



TE Part #GA100K6A1B  
DISCRETE 100K OHM, +/-0.2C FROM 0C TO 70C



TE Part #800319-SF  
FN1393-10-05-11



TE Part #6-87756-7  
MOD IV REC STP INT'L SPEC REEL



TE Part #747275-1  
037 LP HDF STRAIN RELIEF



TE Part #1060455-1  
5162 5013 09,SMB PCB JACK RECP



TE Part #1658612-1  
37 POS HDF RCPT, MS, LEAD FREE



TE Part #1658613-1  
37 POS HDF PLUG, MS, LEAD FREE



TE Part #2478170-1  
9 POS, D SUB CABLE, 28 AWG, 6 FT, M-T-M



TE Part #5745136-3  
SCREW RETAINER KIT



TE Part #5746881-1  
MALE SCREW RETAINER KIT



## Documents

### Product Drawings

[PLUG,CABLE,RTANG,SMB,AUPLTD](#)

English

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### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_414002-1\\_K2.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_414002-1\\_K2.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_414002-1\\_K2.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

[SMB Connectors](#)

English

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### Instruction Sheets

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

English