# 414002-3  ✔ ACTIVE

TE Internal #: 414002-3

SMB RF Interface, Plug, 50 Ω / 75 Ω, RG 188 / RG 316 / RG 174,
Snap-Fit, 4 GHz Operating Frequency, Cable-to-Cable, 1 Position,
Wire & Cable

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 Ω, 75 Ω**

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

All SMB Connector: Plug, Mated Outer Dia. 4.75mm, 50 Ohm (21)

## Features

### Product Type Features

| | |
|---|---|
| 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, 75 Ω |

### Body Features

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| | |
|---|---|
| Body Underplating Material | Copper |
| Cable Connector Orientation | Right Angle |
| 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 |
| RF Contact Captivation Method | Mechanical |
| Detent | With |

### Dimensions

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

### Usage Conditions

| | |
|---|---|
| Operating Temperature Range | -65 – 85 °C[-85 – 185 °F] |

### Operation/Application

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

### Packaging Features

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

### Other

| | |
|---|---|
| Outer Contact Plating Material | Gold over Nickel |
| Grade | Mil-Type |
| 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 | Compliant with Exemptions |

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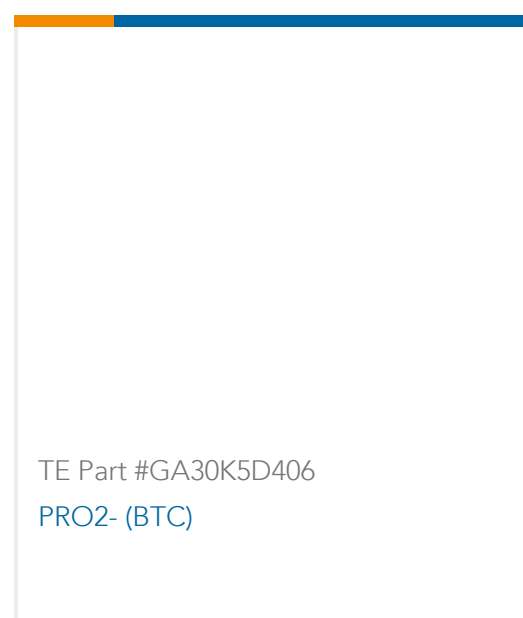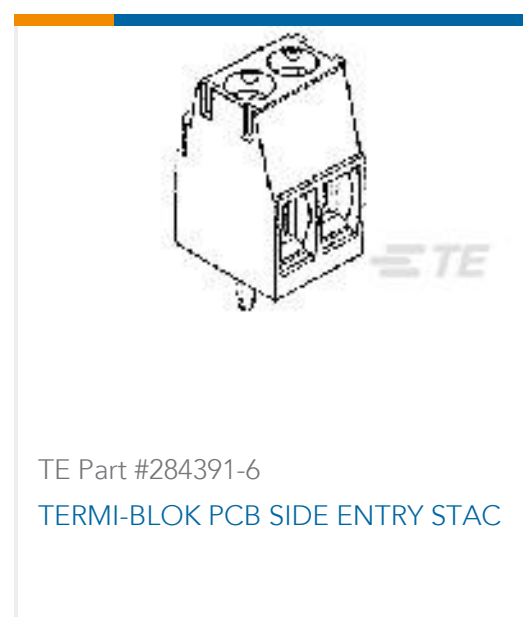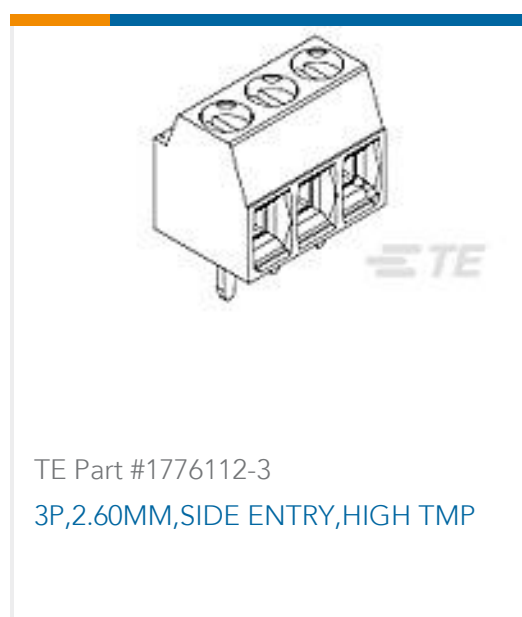| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold |
|---|---|
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) SVHC > Threshold: Pb (3.7% in Component Part) **Article Safe Usage 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 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 # 1060464-1
5164 5003 09

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

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TE Part # 58499-1
AMP PRO-CRIMPER ASSEMBLY

## Customers Also Bought

TE Part #3-641190-2
02P MTA100 CONN ASSY RED LF

TE Part #2-644486-5
05P MTA100 SHRDED HDR ASSY SN

TE Part #413985-3
PLUG ASSY,STR,SMB

TE Part #350541-1
03P CMNL HDR ASSY SHORT NATL

TE Part #1776112-3
3P,2.60MM,SIDE ENTRY,HIGH TMP

TE Part #284391-6
TERMI-BLOK PCB SIDE ENTRY STAC

TE Part #5-104071-2
05 SYSTEM 50 HDR SRST SHRD SN

TE Part #794606-3
MICRO MNL RPT CNT STRIP 30AU

TE Part #175778-6
CT CRIMP REC HSG 6P NATURAL

TE Part #GA30K5D406
PRO2- (BTC)

## Documents

### Product Drawings
PLUG,CABLE,RTANG,SMB,NI PLTD

English

### CAD Files
3D PDF

3D

Customer View Model

ENG_CVM_CVM_414002-3_K.2d_dxf.zip

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English

**Customer View Model**

ENG_CVM_CVM_414002-3_K.3d_igs.zip

English

**Customer View Model**

ENG_CVM_CVM_414002-3_K.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

## Instruction Sheets

Instruction Sheet (U.S.)

English