414002-4 ✔ ACTIVE

TE Internal #: 414002-4

SMB RF Interface, Plug, 50 Ω, RG 188 Double Shield / RG 316 Double Shield / RG 174 Double Shield, Snap-Fit, 4 GHz Operating Frequency, Cable-to-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**

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

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

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 Double Shield, RG 188 Double Shield, RG 316 Double Shield
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

414002-4

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Impedance	50 Ω

Body Features

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>

414002-4

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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	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
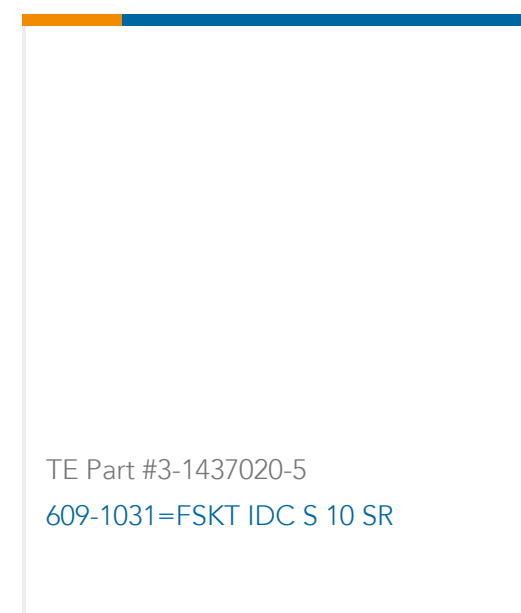SMB Connector: Jack, Vertical Mount, Mated Outer Dia. 4.75mm, 50 Ohm
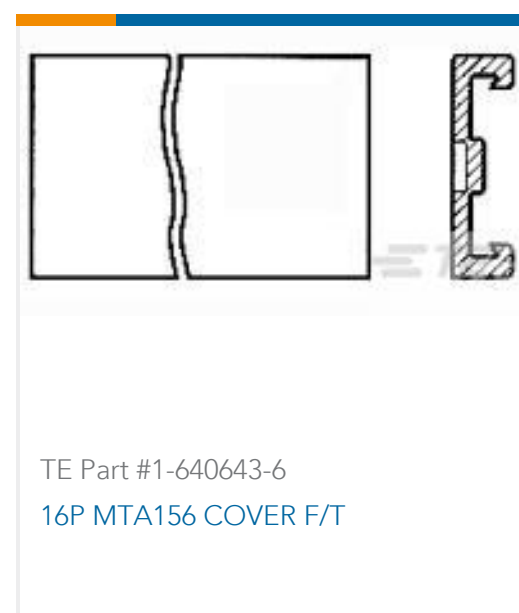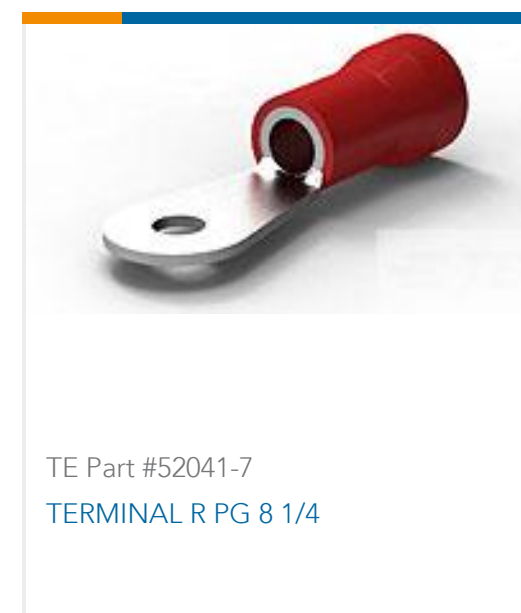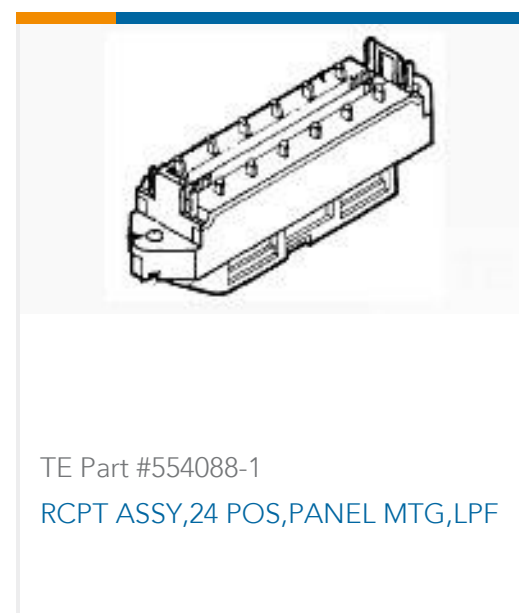
TE Part # CAT-884-SMBMRA50
SMB Connector: Jack, Right-Angle Mount, Mated Outer Dia. 4.75mm

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

SMB RF Interface, Plug, 50 Ω, RG 188 Double Shield / RG 316 Double Shield / RG 174
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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 #5749111-1
20 50SR CABLE PLUG ASSY

TE Part #487223-7
026 HOUSING FFC RCPT 100CL DR

TE Part #554088-1
RCPT ASSY,24 POS,PANEL MTG,LPF

TE Part #52041-7
TERMINAL R PG 8 1/4

TE Part #323096
SOLIS R 22-16 COMM 22-18 MIL 4

TE Part #32953
PG R 22-16 COMM 22-18 MIL 1/4

TE Part #1-640643-6
16P MTA156 COVER F/T

TE Part #3-1437020-5
609-1031=FSKT IDC S 10 SR

Documents

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

English

CAD Files
3D PDF

3D
Customer View Model
ENG_CVM_CVM_414002-4_K.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_414002-4_K.3d_igs.zip

English

Customer View Model
ENG_CVM_CVM_414002-4_K.3d_stp.zip

English

414002-4

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Datasheets & Catalog Pages

SMB Connectors

English

Instruction Sheets

Instruction Sheet (U.S.)

English