

413990-1 ✓ ACTIVE



SMB

TE Internal #: 413990-1

SMB Connector, Jack, 50 ohm, Snap-Fit, 4 GHz, Cable-to-Board, 1 Position, Printed Circuit Board, Board Mount, -65 – 85 °C [-85 – 185 °F], Brass, SMB

[View on TE.com >](#)

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



RF Interface: **SMB**

RF Connector Style: **Jack**

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

Impedance: **50 Ω**

RF Connector Coupling Mechanism: **Snap-Fit**

[All SMB Connector: Jack, Vertical Mount, Mated Outer Dia. 4.75mm, 50 Ohm \(2\)](#)

Features

Product Type Features

Connector Shape	Rectangular
Connector Product Type	Connector Assembly
RF Interface	SMB
RF Connector Style	Jack
Connector System	Cable-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

PCB Mount Orientation	Vertical
Number of Positions	1
Number of Coaxial Contacts	1

Electrical Characteristics



Impedance	50 Ω
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Body Features

Body Underplating Material	Nickel
Body Material	Brass
Body Material Finish	Plated
Body Plating Material	Gold

Contact Features

RF Connector Center Contact Underplating Material	Nickel
RF Connector Center Contact Plating Material	Gold (Au)
RF Connector Center Contact Material	Brass

Termination Features

Termination Method to PCB	Through Hole - Solder
Termination Post & Tail Length	3.94 mm[.155 in]

Mechanical Attachment

RF Connector Coupling Mechanism	Snap-Fit
Connector Mounting Type	Board Mount
Detent	Without

Dimensions

Profile Height from PCB	7.62 mm[.3 in]
RF Connector Mated Outer Diameter (Approximate)	4.75 mm[.187 in]

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
Dielectric Material	Polytetrafluoroethylene (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	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Pb (4% 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 Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Pin-in-Paste capable to 260°C

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>

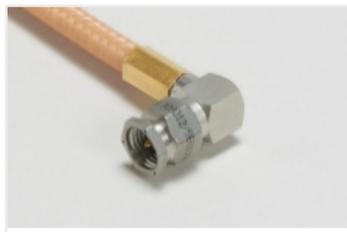
Compatible Parts



Also in the Series | SMB



Coax Connectors(40)



RF Cable Assemblies(10)

Customers Also Bought



TE Part #66682-4
PIN CONTACT, 20 DF



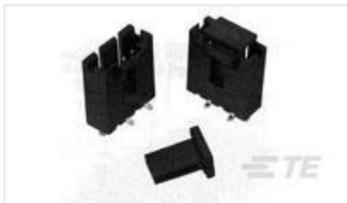
TE Part #1-87224-0
10 MODII HDR SRST UNSHRD .100



TE Part #641964-3
02P UMNL PIN HDR ASSY POL LF



TE Part #1-641966-1
03P UMNL PIN HDR ASSY BLK



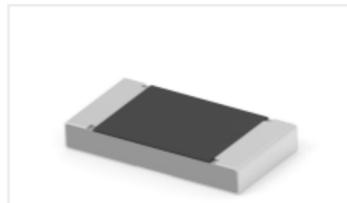
TE Part #5-1375583-1
02 MTE VERTICAL SMT HDR 30 AU



TE Part #3-2176366-6
RQ 0603 1K0 0.1% 10PPM 1K RL



TE Part #5-2176524-0
3503G 2B 1K78 1% 1K RL



TE Part #5-2176525-5
3503G 2B 21K5 1% 1K RL



TE Part #7-2176562-8
3430 H2 1% 1K5 100ppm 1k RL



TE Part #1-2176567-7
3430 A3 1% 56K 100ppm 1k RL

Documents

Product Drawings
[STR JACK, SMB, PCB](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_413990-1_J.2d_dxf.zip](#)



English

Customer View Model

[ENG_CVM_CVM_413990-1_J.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_413990-1_J.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

Product Specification

English

Instruction Sheets

Instruction Sheet (U.S.)

English

AMP SMB PRINTED CIRCUIT (PC) BOARD VERTICAL JACK CONNECTOR P/N 413990

English