2501419-1 ✔ ACTIVE

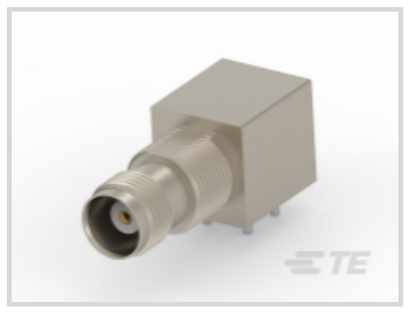
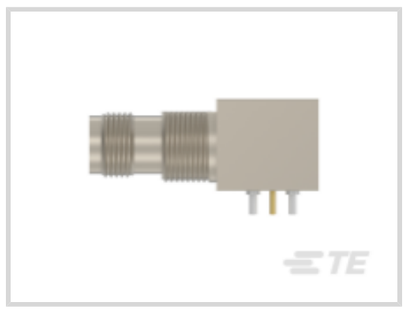
TNC

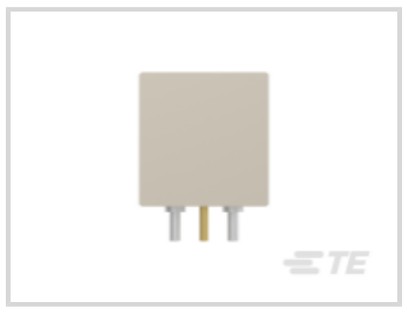
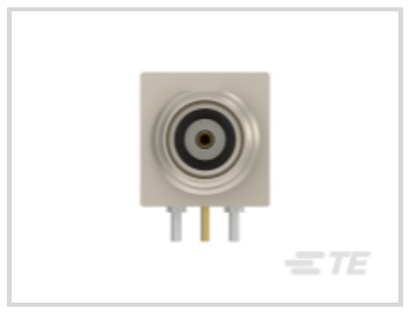
TE Internal #: 2501419-1

TNC Connector, Jack, 50 ohm, Screw, 11 GHz, Cable-to-Board, 1 Position, Printed Circuit Board, Panel Mount, -65 – 165 °C [-85 – 329 °F], Brass, TNC

View on TE.com >

Connectors > RF Connectors > Coax Connectors

RF Interface: **TNC**

RF Connector Style: **Jack**

RF Connector Mated Outer Diameter (Approximate): **16.25 mm [.64 in]**

Impedance: **50 Ω**

RF Connector Coupling Mechanism: **Screw**

Features

Product Type Features

RF Interface	TNC
RF Connector Style	Jack
Connector System	Cable-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

PCB Mount Orientation	Right Angle
Number of Positions	1
Number of Coaxial Contacts	1

Electrical Characteristics

Impedance	50 Ω

Body Features

Body Underplating Material	Nickel
Body Material	Brass

Body Material Finish	Plated
Body Plating Material	Nickel

Contact Features

RF Connector Center Contact Underplating Material	Nickel
RF Connector Center Contact Plating Thickness	.254 µm[10 µin]
RF Connector Center Contact Plating Material	Gold (Au)
RF Connector Center Contact Material	Phosphor Bronze

Termination Features

Termination Method to PCB	Through Hole - Solder
Termination Post & Tail Length	3.33 mm[.131 in]

Mechanical Attachment

PCB Mount Retention	With
RF Connector Coupling Mechanism	Screw
Connector Mounting Type	Panel Mount
RF Contact Captivation Method	Mechanical
Detent	Without

Dimensions

Panel Thickness (Recommended)	6.1 mm[.24 in]
Profile Height from PCB	15.88 mm[.625 in]
RF Connector Mated Outer Diameter (Approximate)	16.25 mm[.64 in]

Usage Conditions

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

Operation/Application

Operating Frequency Range	11 GHz

Packaging Features

Packaging Method	Tray

Other

Additional Features	Mounting Posts
Dielectric Material	Polytetrafluoroethylene (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	Not Yet Reviewed
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: JUNE 2025 (250) SVHC > Threshold: Pb (3.8% 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 reviewed 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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles'(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

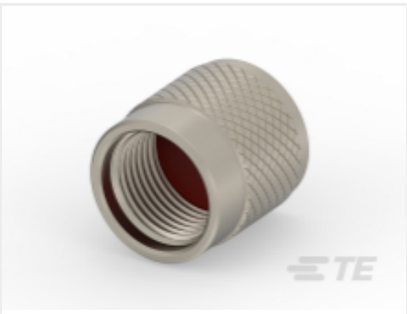
Compatible Parts



TE Part # 1-225550-3
TNC PLUG



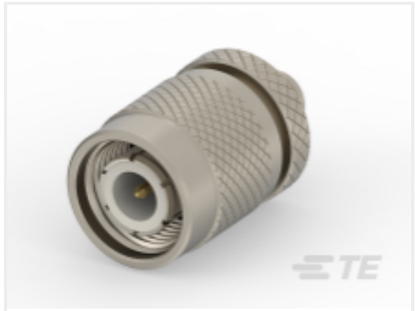
TE Part # 225550-6
TNC PLUG DUAL W/P



TE Part # 2501432-1
TNC Plug Protection Cap



TE Part # 1-225550-2
TNC PLUG



TE Part # 2501433-1
TNC Plug to SMA Jack Str 50 Ohm

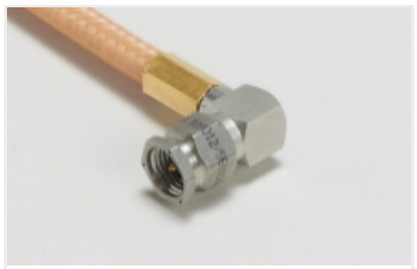
Also in the Series | TNC



Coax Connectors(29)



Connector Adapters & Connector Savers(4)



RF Cable Assemblies(9)

Documents

Product Drawings

TNC Jack RA PCB Thru Hole 11 GHz 50 Ohm

English

CAD Files

Customer View Model

ENG_CVM_CVM_2501419-1_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2501419-1_1.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2501419-1_1.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Datasheets & Catalog Pages

TNC_Connectors_ENG_CS

English

Product Specifications

Product Specification

English