

ANT-450-RHS-SMA

✓ ACTIVE

TE Internal #: ANT-450-RHS-SMA  
Terminal/Duck Antenna, Single Band, Cat-M/NB-IoT / Cellular,  
External Mount, Stud/Screw/Lug Mount, SMA, Omnidirectional,  
Single Port, Gain < 0 dBi  
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Antennas



Wireless Application: Cat-M/NB-IoT, Cellular  
Mounting Location: External  
Mounting Type: Stud/Screw/Lug Mount  
Frequency Category: 410 – 470  
Antenna Type: Terminal/Duck

Features

Product Type Features

Antenna Termination	SMA
Antenna Product Type	Antenna

Configuration Features

Antenna Style	Whip
Mounting Location	External
Antenna Type	Terminal/Duck
Band Type	Single Band
Port Configuration	Single Port

Electrical Characteristics

VSWR (Max)	<2:1
Impedance	50 Ω

Signal Characteristics

Frequency Band	450 MHz
Frequency Category	410 – 470
Peak Gain	< 0 dBi

Body Features

Product Weight	6.2 g[.21869 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Stud/Screw/Lug Mount

Dimensions

Product Width	9 mm[.35 in]
Product Length	51.8 mm[2.04 in]
Product Height	9 mm[.35 in]

Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

Industry Standards

Wireless Application	Cat-M/NB-IoT, Cellular
Primary Application	Cat-M/NB-IoT, Cellular

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	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Not Yet Reviewed
Halogen Content	Low Halogen - Br, Cl, F, I < 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





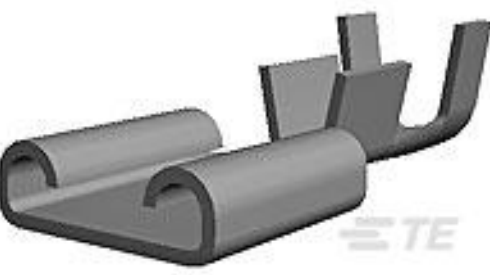





product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

 <p>TE Part # CONSMA001 SMA Jack 50 Ohm PCB Through Hole</p>	 <p>TE Part # CONSMA002-L-G SMA Jack 50 Ohm PCB Through Hole</p>	 <p>TE Part # CONSMA002-SMD-G SMA Jack 50 Ohm PCB Surface Mount</p>	 <p>TE Part # CONSMA008-G SMA Jack 50 Ohm Through Hole PCB</p>
 <p>TE Part # L000503-01 ANT-450-CW-RCS-SMA</p>	 <p>TE Part # L000503-02 ANT-450-CW, RCS-PRS</p>		

Customers Also Bought

 <p>TE Part #5-1415899-0 RZ03-1A3-D024</p>	 <p>TE Part #5103309-1 A/L LOW PRO HDR 10P VERT BLACK</p>	 <p>TE Part #ANT-868-HESM Antenna 1/4 Wave Coil 868MHz SMT</p>	 <p>TE Part #521601-2 ULTRA-POD 187 ASY REC 18-14 AWG TPBR</p>
 <p>TE Part #160807-2 250 FASTON,REC.,20-16 AWG,BR</p>	 <p>TE Part #1SNA115501R1200 M6/8.D2</p>	 <p>TE Part #L9000151-01 ANTENNA IND DIPOLE 868MHZ RG58 2M RPS</p>	 <p>TE Part #MAF94300 Dipol,Hepta,SMAM 824-2500MHz,2-3dBi</p>

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Documents

Product Drawings

Antenna Short Straight 450-470MHz SMA

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_ANT-450-RHS-SMA\_A.3d\_igs.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_ANT-450-RHS-SMA\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_ANT-450-RHS-SMA\_A.3d\_stp.zip

English

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

Datasheets & Catalog Pages

450 MHz Cellular LTE Antenna

English