

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

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Antennas



Communication Protocol: **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

|            |      |
|------------|------|
| Impedance  | 50 Ω |
| VSWR (Max) | <2:1 |

Signal Characteristics

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

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

|                        |                        |
|------------------------|------------------------|
| Communication Protocol | 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 | 未针对中国 RoHS 符合性进行审核 Not reviewed for China RoHS compliance                        |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2025 (250)<br>Not Yet Reviewed                 |
| Halogen Content                               | Low Halogen - Br, Cl, F < 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 # CONSMA002-L-G  
SMA Jack 50 Ohm PCB Through Hole



TE Part # L000503-02  
ANT-450-CW, RCS-PRS



TE Part # L000503-01  
ANT-450-CW-RCS-SMA



TE Part # CONSMA008-G  
SMA Jack 50 Ohm Through Hole PCB



TE Part # CONSMA002-SMD-G  
SMA Jack 50 Ohm PCB Surface Mount



TE Part # CONSMA001  
SMA Jack 50 Ohm PCB Through Hole

Customers Also Bought



TE Part #CONMCX011  
MCX Jack 50 Ohm Cable Crimp



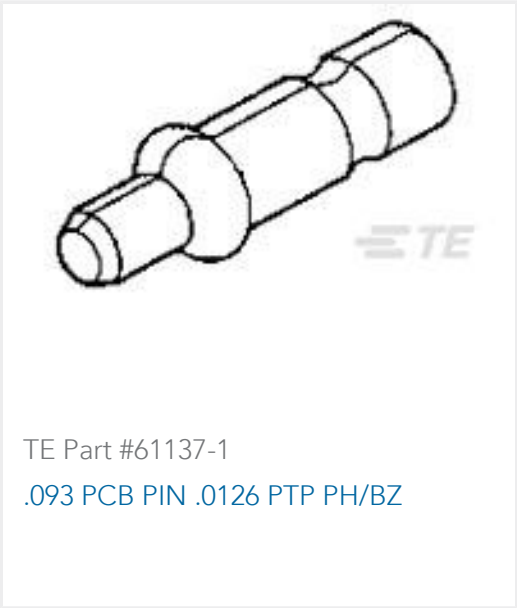
TE Part #ANT-916-CW-RCS-SMA  
Antenna CW-RCS 916 SMA Jack



TE Part #CONMCX007  
MCX Plug 50 Ohm Cable Crimp



TE Part #FG4505W  
OMNI,FG,450-470MHZ,100W 460MHz, 7dBi



TE Part #61137-1  
.093 PCB PIN .0126 PTP PH/BZ



TE Part #61291-1  
RECPT .093 DIA 22-18 PTPPHBRZ



TE Part #5-747904-5  
9 Plug Solder Cup, 30 gold, Ro



TE Part #1478884-2  
Metric EMC Gland M16x1.5



TE Part #2108923-1  
External Ant., SMA, Wi-Fi 7(Black)



TE Part #5745854-3  
CABLE CLAMP KIT,SZ 1



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