

ANT-2.4-CW-RCL-SMA

✓ ACTIVE

TE Internal #: L9000028-01

Terminal/Duck Antenna, Single Band, Bluetooth / ISM / Zigbee, External Mount, Stud/Screw/Lug Mount, SMA, Omnidirectional, Single Port

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Antennas



Communication Protocol: **Bluetooth, ISM, Zigbee**

Mounting Location: **External**

Mounting Type: **Stud/Screw/Lug Mount**

Frequency Category: **2400 – 2500**

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)	<1.9:1

Signal Characteristics

Frequency Band	2400 – 2485 MHz
Frequency Category	2400 – 2500
Peak Gain	0 < 3 dBi

Body Features

Product Weight	14.16 g[.49947 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Stud/Screw/Lug Mount

Dimensions

Product Width	16.6 mm[.65 in]
Product Length	88 mm[3.46 in]
Product Height	0 mm[0 in]

Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

Industry Standards

Communication Protocol	Bluetooth, ISM, Zigbee
Primary Application	Bluetooth, ISM, Zigbee

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: JAN 2025 (247) SVHC > Threshold: Pb (.35% 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	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-SMD-G
SMA Jack 50 Ohm PCB Surface Mount

TE Part # CONSMA001
SMA Jack 50 Ohm PCB Through Hole

TE Part # CONSMA002-L-G
SMA Jack 50 Ohm PCB Through Hole

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

Customers Also Bought

TE Part #ANT-868-CW-RCL-SMA
Antenna 1/2 Wave R-Angle 868MHz SMA

TE Part #CAT-J04-APHH
AMPSEAL PCB Right-Angle Headers SMA

TE Part #1-917657-2
DYNAMIC D-3 HDR ASSY 10P PdNi

TE Part #1622829-1
CRG0603 1% 10K

TE Part #7-1879338-1
CPF 0603 143K 1% 50PPM 1K RL

TE Part #4-2176339-6
CRGCQ 0603 56K 1%

TE Part #4-2176341-9
CRGCQ 0805 100K 1%

TE Part #5177985-1
0.8FH,R05H.5,040,08/Sn,TR,SC

TE Part #5179029-1
0.8FH,P06H.5,040,08/Sn,TU



Documents

Product Drawings

Antenna 1/2 Wave R-Angle 2.4GHz SMA

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_L9000028-01_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_L9000028-01_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L9000028-01_A.3d_stp.zip

English

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

Datasheets & Catalog Pages

2.4 GHz Right-Angle Whip Antenna

English