

ANT-2.4-CW-CT-RPS

✓ ACTIVE

TE Internal #: L9000016-01

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

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Antennas



Antenna Type: **Terminal/Duck**

Band Type: **Single Band**

Primary Application: **Bluetooth, ISM, Zigbee**

Wireless Application: **Bluetooth, ISM, Zigbee**

Mounting Location: **External**

Features

Product Type Features

|                      |         |
|----------------------|---------|
| Antenna Termination  | RP-SMA  |
| Antenna Product Type | Antenna |

Configuration Features

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

Electrical Characteristics

|            |        |
|------------|--------|
| Impedance  | 50 Ω   |
| VSWR (Max) | <1.9:1 |

Signal Characteristics

|                    |                 |
|--------------------|-----------------|
| Frequency Band     | 2400 – 2485 MHz |
| Gain (Max)         | 2.8 dB          |
| Frequency Category | 2400 – 2500     |
| Peak Gain          | 0 < 3 dBi       |

Body Features

|                |                    |
|----------------|--------------------|
| Product Weight | 10.68 g[.37671 oz] |
|----------------|--------------------|



Mechanical Attachment

|               |                      |
|---------------|----------------------|
| Polarization  | Linear               |
| Mounting Type | Stud/Screw/Lug Mount |

Dimensions

|                |                 |
|----------------|-----------------|
| Product Width  | 10 mm[.39 in]   |
| Product Length | 113 mm[4.45 in] |
| Product Height | 0 mm[0 in]      |

Operation/Application

|                     |                 |
|---------------------|-----------------|
| Antenna Environment | Outdoor         |
| Directionality      | Omnidirectional |

Industry Standards

|                      |                        |
|----------------------|------------------------|
| Primary Application  | Bluetooth, ISM, Zigbee |
| Wireless 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 | Restricted Materials Above Threshold                            |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2025 (247)<br>Not Yet Reviewed |
| Halogen Content                               | Not Yet Reviewed for halogen content                            |
| 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 # CONREV SMA002-SMD-G  
RP-SMA RA Jack 50 Ohm PCB Surface Mount

TE Part # CONREV SMA001-G  
RP-SMA Jack 50 Ohm PCB Through Hole

TE Part # L9000251-01  
RP-SMA Jack 50 Ohm .062 PCB Edge Mount

TE Part # L9000254-01  
RP-SMA Jack 50 Ohm .031 PCB Edge Mount

Customers Also Bought

TE Part #1-2176340-5  
CRGCQ 0603 220R 5%

TE Part #1-1676966-1  
SMW2 R27 5%

TE Part #1-746610-6  
26 DIP PLUG, 100CL, LEAD FREE

TE Part #5-532955-5  
30 MODII 2PC CE RCPT ASSY, RoHS

TE Part #1-2176331-4  
CRGP 2512 120R 1%

TE Part #5650466-5  
ASSEMBLY,RECEPTACLE,EURO,TYPE

TE Part #1-1879233-5  
SMW5 R39 5%

TE Part #1761608-5  
IDC LOW PRO HDR 14P VERT SHT L

TE Part #1674954-1  
SHIELD FINGER 2026 WITH TAPE

TE Part #6-534237-0  
12 MODII VRT SR CE 100/115

Documents

Product Drawings  
Antenna 1/2 Wave Whip 2.4GHz RPS  
English



CAD Files

Customer View Model

ENG\_CVM\_CVM\_L9000016-01\_A1.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_L9000016-01\_A1.3d\_stp.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_L9000016-01\_A1.2d\_dxf.zip

English

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Datasheets & Catalog Pages

ANT-2.4-CW-CT-xxx

English