

# ANT-868-CW-RH-SMA ✓ ACTIVE

TE Internal #: ANT-868-CW-RH-SMA

Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN,  
External Mount, Stud/Screw/Lug Mount, SMA, Omnidirectional,  
Single Port, Gain < 0 dBi

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## Antennas



Wireless Application: **LoRaWAN, LPWAN, Wi-Fi**

Mounting Location: **External**

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

Frequency Category: **862 – 870**

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) | <1.9:1      |
| Impedance  | 50 $\Omega$ |

### Signal Characteristics

|                    |           |
|--------------------|-----------|
| Frequency Band     | 868 MHz   |
| Frequency Category | 862 – 870 |
| Peak Gain          | < 0 dBi   |

### Body Features

|                |                   |
|----------------|-------------------|
| Product Weight | 5.94 g[.20952 oz] |
|----------------|-------------------|



### Mechanical Attachment

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

### Dimensions

|                |                |
|----------------|----------------|
| Product Width  | 8.5 mm[.33 in] |
| Product Length | 51 mm[2.01 in] |
| Product Height | 0 mm[0 in]     |

### Operation/Application

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

### Industry Standards

|                      |                       |
|----------------------|-----------------------|
| Wireless Application | LoRaWAN, LPWAN, Wi-Fi |
| Primary Application  | LoRaWAN, LPWAN        |

### Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

|   |  |
|---|--|
| EU RoHS Directive 2011/65/EU                  | Not Compliant  |
| 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)<br>Candidate List Declared Against: JAN 2024 (240)<br>SVHC > Threshold:<br>Pb (4.35% in Component Part)<br><b>Article Safe Usage Statements:</b><br>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                               | Not Low Halogen - contains Br or Cl > 900 ppm.   |
| 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



## Customers Also Bought



## Documents

### Product Drawings

[Antenna 1/4 Wave Short 868MHz SMA](#)

English

[Antenna 1/4 Wave Short 868MHz SMA](#)

English

### CAD Files

[Customer View Model](#)

[ENG\\_CVM\\_CVM\\_ANT-868-CW-RH-SMA\\_A.2d\\_dxf.zip](#)



English

Customer View Model

[ENG\\_CVM\\_CVM\\_ANT-868-CW-RH-SMA\\_A.3d\\_igs.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_ANT-868-CW-RH-SMA\\_A.3d\\_stp.zip](#)

English

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

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### Datasheets & Catalog Pages

[ANT-868-CW-RH](#)

English