

ANT-868-ID-1000-SMA

✓ ACTIVE

TE Internal #: L9000149-01

Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN, Remote Mount, Pole/Mast/Bracket Mount, SMA, Omnidirectional, Single Port, 0 < 3 dBi Peak Gain

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Antennas



Antenna Type: **Terminal/Duck**

Band Type: **Single Band**

Primary Application: **LoRaWAN, LPWAN**

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

Mounting Location: **Remote**

Features

Dimensions

Product Width	31.2 mm[1.23 in]
Product Length	124.6 mm[4.91 in]
Product Height	11.9 mm[.47 in]
Cable Length	1 m[3.28 ft]

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<1.9:1

Signal Characteristics

Frequency Band	868 MHz
Frequency Category	862 – 870
Peak Gain	0 < 3 dBi

Mechanical Attachment

Polarization	Linear
Mounting Type	Pole/Mast/Bracket Mount

Configuration Features

Antenna Style	Dipole
Antenna Type	Terminal/Duck
Band Type	Single Band



Mounting Location	Remote
Port Configuration	Single Port

Industry Standards

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

Product Type Features

Antenna Termination	SMA
Antenna Product Type	Antenna

Operation/Application

Directionality	Omnidirectional
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Other

EU RoHS Compliance	Compliant with Exemptions
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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) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: Pb (.31% 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, 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

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

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 #2199230-2
M.2 0.5PITCH 4.2H KEY E GOLDFLASH

TE Part #ANT-868-MHW-SMA-S
Antenna 868MHz Dipole MHW Short SMA

TE Part #282959-3
TERMI-BLOK PLUG 3P. 7

TE Part #4-1462037-0
IM01JR=IM RELAY 140mW 3V

TE Part #ANT-868-OC-LG-SMA
Antenna Straight Whip 868MHz Swivel SMA

TE Part #L9000076-01
ANTENNA IND DIPOLE 2.4GHZ RG58 1M RPS

TE Part #1676390-2
RN 0805 5K76 0.1% 10PPM 1KRL

TE Part #ANT-433-CW-QW-SMA
Antenna 1/4 Wave Whip 433MHz SMA

TE Part #ANT-868-CW-HW-SMA
Antenna 1/2 Wave Whip 868MHz SMA

TE Part #ANT-433-CW-HW-SMA
Antenna 1/4 Wave Whip 433MHz SMA

Documents



Product Drawings

ANTENNA IND DIPOLE 868MHZ RG58 1M RPS

English

CAD Files

Customer View Model

ENG_CVM_CVM_L9000149-01_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_L9000149-01_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L9000149-01_A.3d_stp.zip

English

3D PDF

3D

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

Datasheets & Catalog Pages

ANT-868-ID

English