

ANT-868-CW-QW-SMA ✓ ACTIVE

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

Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN,
External Mount, Stud/Screw/Lug Mount, SMA, Omnidirectional,
Single Port, Gain 0 < 3 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)	<2.1:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	1.2 dB
Frequency Band	868 MHz
Frequency Category	862 – 870
Peak Gain	0 < 3 dBi

Body Features

Product Weight	12.96 g[.45714 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Stud/Screw/Lug Mount

Dimensions

Product Width	14.5 mm[.57 in]
Product Length	83.5 mm[3.29 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	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 (4% 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	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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 # CONSMA001
SMA Jack 50 Ohm PCB Through Hole



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



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



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

Customers Also Bought



TE Part #2058943-3
Cable Assembly Mini CT 4 pos.



TE Part #2118707-2
1 PC STD SHIELD, CRS-16.50X16.50X3.60MM



TE Part #2118716-2
STD SHIELD FRAME, CRS-16.50X16.50X3.60MM




TE Part #1-2176329-5
CRGP 1210 150R 1%



TE Part #L9000023-01
Antenna 1/2 Wave Whip 2.4GHz RPS



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



TE Part #ANT-868-CW-QW
Antenna 1/4 Wave Whip 868MHz



TE Part #ANT-915-IPW1-RPS
Antenna Whip IP67 915MHz LPWA Swivel RPS



TE Part #ANT-W63-SPNF1
Antenna WiFi6/6E Dome N Jack



TE Part #1045369-1
SSMA CABLE PLUG 1001 7985 00

Documents



Product Drawings

Antenna 1/4 Wave Whip 868MHz SMA

English

CAD Files

Customer View Model

[ENG_CVM_CVM_ANT-868-CW-QW-SMA_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-868-CW-QW-SMA_C.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-868-CW-QW-SMA_C.2d_dxf.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-CW-QW

English