

ANT-868-WRT-SMA

✓ ACTIVE

TE Internal #: ANT-868-WRT-SMA
Dome/Puck Antenna, Single Band, LPWAN / LoRaWAN, External Mount, Stud/Screw/Lug Mount, SMA, Omnidirectional, Single Port, 3 < 6 dBi Peak Gain
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Antennas



Communication Protocol: **LoRaWAN, LPWAN, Wi-Fi**
Mounting Location: **External**
Mounting Type: **Stud/Screw/Lug Mount**
Frequency Category: **862 – 870**
Antenna Type: **Dome/Puck**

Features

Product Type Features

Antenna Termination	SMA
Antenna Product Type	Antenna

Configuration Features

Antenna Style	Dome
Mounting Location	External
Antenna Type	Dome/Puck
Band Type	Single Band
Port Configuration	Single Port

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<1.9:1

Signal Characteristics

Frequency Band	868 MHz
Gain (Max)	1.5 dB
Frequency Category	862 – 870
Peak Gain	3 < 6 dBi

Body Features

Antenna Weight	11.97 g[.422 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Stud/Screw/Lug Mount

Dimensions

Product Width	19 mm[.75 in]
Product Length	10 mm[.39 in]
Product Height	0 mm[0 in]
Cable Length	.21 m[.71 ft]

Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

Industry Standards

Communication Protocol	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
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
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

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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 # L000945-01
Antenna Dome 916MHz 500mm
RG174 RPS



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 #5053092090
RNF-100-1/4-0-STK



TE Part #CONSMA008
SMA Jack 50 Ohm PCB Through Hole



TE Part #ANT-916-WRT-SMA
Antenna Dome Compact 916MHz
RG174 SMA



TE Part #OF86315-FNF
OMNI,FG,863-928MHz ,5dBi,



TE Part #ANT-868-JJB-ST
Antenna Mini Straight 868MHz THM



TE Part #ANT-868-CW-RH-SMA
Antenna 1/4 Wave Short 868MHz SMA



TE Part #L000643-01
FPC, ANT, 13.56MHZ, FERRITE, NFC,
RECT



TE Part #2081156-1
SMA Jack S/T RF CONN, PIP

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Documents

Product Drawings

Antenna Dome 868MHz RG174 216 SMA

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_ANT-868-WRT-SMA_D.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_ANT-868-WRT-SMA_D.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_ANT-868-WRT-SMA_D.3d_stp.zip

English

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

Datasheets & Catalog Pages

868 MHz External Panel-Mount Antenna

English