

ANT-916-CW-HWR-SMA

✓ ACTIVE

TE Internal #: ANT-916-CW-HWR-SMA
Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN,
External Mount, Stud/Screw/Lug 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: **External**

Features

Body Features

Product Weight	14.22 g[.50158 oz]
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Dimensions

Product Width	10 mm[.39 in]
Product Length	142 mm[5.59 in]
Product Height	0 mm[0 in]

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2.1:1

Signal Characteristics

Frequency Band	915 MHz
Gain (Max)	1.2 dB
Frequency Category	902 – 930
Peak Gain	0 < 3 dBi

Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

Mechanical Attachment

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Polarization	Linear
Mounting Type	Stud/Screw/Lug Mount

Configuration Features

Antenna Style	Whip
Antenna Type	Terminal/Duck
Band Type	Single Band
Mounting Location	External
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

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 (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 # CONSMA002-L-G SMA Jack 50 Ohm PCB Through Hole	TE Part # CONSMA002-SMD-G SMA Jack 50 Ohm PCB Surface Mount	TE Part # CONSMA001 SMA Jack 50 Ohm PCB Through Hole	TE Part # CONSMA008-G SMA Jack 50 Ohm Through Hole PCB

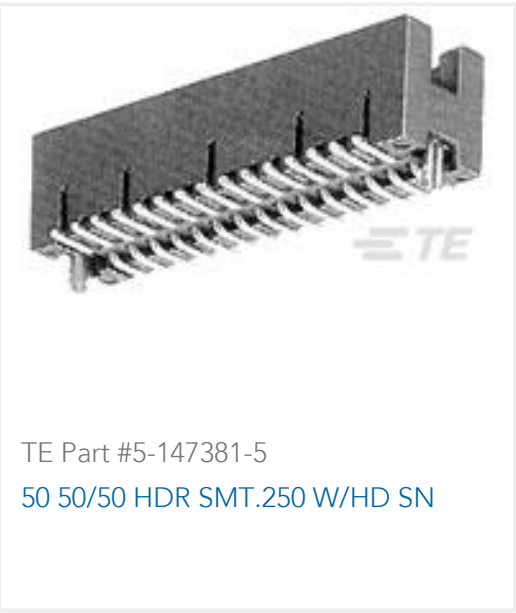
Customers Also Bought

TE Part #1-1649341-7 T9CP5A54-24	TE Part #CSI-SGFB-200-UFFR SMA to U.FL/MHF1 200mm 1.13 OD	TE Part #1-2176339-9 CRGQ 0603 330R 1%	TE Part #DTF15-12PC HDR, 12P, GRN, ST, SN/NI/CU, C

TE Part #5-104652-5 50 50/50 GRID DRST SFMNT RCPT	TE Part #ANT-418-CW-HWR-SMA Antenna 1/4 Wave Whip Swivel 418MHz SMA	TE Part #HUM-A-900-PRO-CAS Module HUM-PRO-A 900MHz FHSS FM XCVR FCC	TE Part #DTP10-4P HDR, 4P, BLK, ST, SN/NI/CU

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Documents

Product Drawings

Antenna 1/2 Wave Whip Swivel 916MHz SMA

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_ANT-916-CW-HWR-SMA_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_ANT-916-CW-HWR-SMA_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_ANT-916-CW-HWR-SMA_B.3d_stp.zip

English

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

Datasheets & Catalog Pages

ANT-916-CW-HWR-ccc

English