ANT-916-HESM ACTIVE

TE Internal #: ANT-916-HESM
Helical Antenna, Single Band, LPWAN / LoRaWAN, Internal
/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single

Port, Gain > 6 dBi

View on TE.com >



Antennas



Wireless Application: LoRaWAN, LPWAN, Wi-Fi

Mounting Location: Internal/Embedded

Mounting Type: Surface Mount Frequency Category: 902 – 930

Antenna Type: Helical

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

Antenna Style	Helical
Mounting Location	Internal/Embedded
Antenna Type	Helical
Band Type	Single Band
Port Configuration	Single Port

Electrical Characteristics

VSWR (Max)	<2.1:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	2.4 dB
Frequency Band	915 MHz
Frequency Category	902 – 930
Peak Gain	> 6 dBi

Body Features

Product Weight	1 g[.03527 oz]



Mechanical Attachment	
Polarization	Linear
Mounting Type	Surface Mount
Dimensions	
Product Width	8.9 mm[.35 in]
Product Length	25.4 mm[1 in]
Product Height	0 mm[0 in]
Operation/Application	
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
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
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



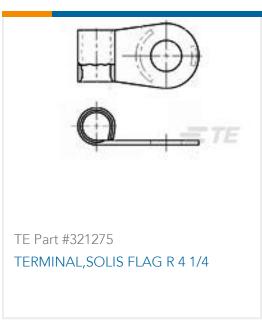




Customers Also Bought









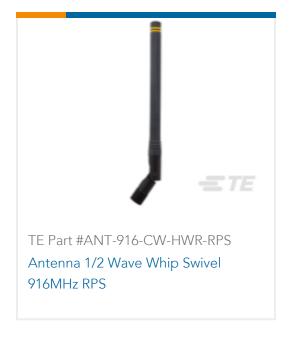












Documents

Product Drawings

Antenna 1/4 Wave Coil 916MHz SMT

English

Helical Antenna, Single Band, LPWAN / LoRaWAN, Internal/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single Port, Gain > 6 dBi



CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_ANT-916-HESM_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_ANT-916-HESM_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_ANT-916-HESM_B.3d_stp.zip

English

By downloading the CAD file I accept and agree to the **Terms and Conditions** of use.

Datasheets & Catalog Pages

HE Series 916 MHz Helical Antenna

English

916 MHz Helical Antenna

English