

ANT-315-HESM

✓ ACTIVE

TE Internal #: ANT-315-HESM
Helical Antenna, Single Band, LPWAN, Internal/Embedded Mount,
Surface Mount, Solder, Omnidirectional, Single Port
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Antennas



Communication Protocol: **LPWAN**
Mounting Location: **Internal/Embedded**
Mounting Type: **Surface Mount**
Frequency Category: **305 – 325**
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

Impedance	50 Ω
VSWR (Max)	<2.1:1

Signal Characteristics

Frequency Band	315 MHz
Frequency Category	305 – 325

Body Features

Antenna Weight	4.94 g[.174 oz]
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Mechanical Attachment

Polarization	Linear
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Mounting Type

Surface Mount

Dimensions

Product Width	8.9 mm[.35 in]
Product Length	38.1 mm[1.5 in]
Product Height	0 mm[0 in]

Operation/Application

Directionality	Omnidirectional
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Industry Standards

Communication Protocol	LPWAN
Primary Application	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	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: FEB 2026 (253) Candidate List Declared Against: JUNE 2023 (235) 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 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 # ANT-315-HETH
Antenna 1/4 Wave Coil 315MHz THM



TE Part # ANT-315-PW-LP
Antenna 1/4 Wave 315MHz Screw #6

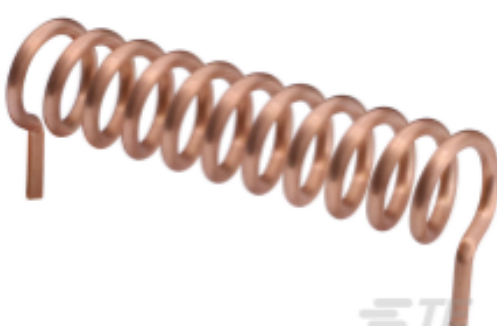
Customers Also Bought



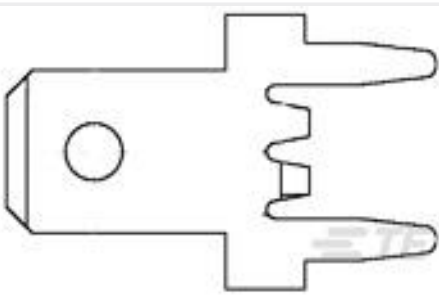
TE Part #ANT-315-CW-RCS
Antenna 1/4 Wave R-Angle 315MHz RPS



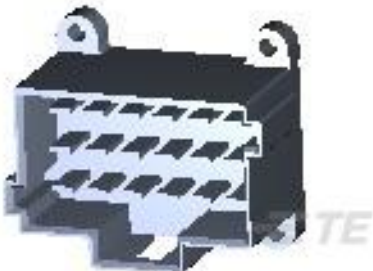
TE Part #ANT-433-HESM
Antenna 1/4 Wave Coil 433MHz SMT



TE Part #ANT-433-HETH
Antenna 1/4 Wave Coil 433MHz THM



TE Part #63982-1
187 FASTON TAB TPBR



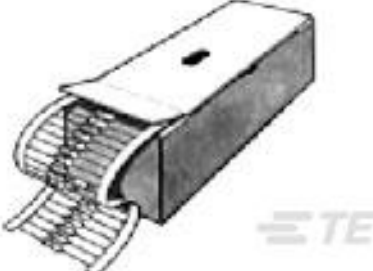
TE Part #967116-1
MESSERLEISTE 18P



TE Part #9-1393211-0
T92S11D12-24



TE Part #1623929-1
CFR200 5% 100K



TE Part #1-2176083-5
EP 5W (S) 2K2 5%



TE Part #4-2176341-1
CRGCQ 0805 22K 1%



TE Part #L9000235-01
Antenna WIFI6 2.4/5/6 GHz RPC UFL 200

Documents

Product Drawings
Antenna 1/4 Wave Coil 315MHz SMT
English



CAD Files

Customer View Model

[ENG_CVM_CVM_ANT-315-HESM_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-315-HESM_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-315-HESM_B.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-315-HESM](#)

English