



Antennas



Antenna Type: **Helical**

Band Type: **Single Band**

Primary Application: **LPWAN**

Wireless Application: **LPWAN**

Mounting Location: **Internal/Embedded**

Features

Product Type Features

Antenna Termination	Screw-Mount
Antenna Product Type	Antenna

Configuration Features

Antenna Style	Whip
Antenna Type	Helical
Band Type	Single Band
Mounting Location	Internal/Embedded

Electrical Characteristics

Impedance	50 Ω
Antenna Operation	Passive
VSWR (Max)	<3.4:1

Signal Characteristics

Frequency Band	698 – 803 MHz
Frequency Category	698 – 960
Peak Gain	0 < 3 dBi



Body Features

Product Weight	8 g
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Mechanical Attachment

Polarization	Linear
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Dimensions

Product Diameter	10.5 mm[.413 in]
Product Length	50.3 mm[1.98 in]

Operation/Application

Antenna Environment	Indoor
Wireless Standard	Cellular
Directionality	Omnidirectional

Industry Standards

Primary Application	LPWAN
Wireless Application	LPWAN

Product Availability

Applicable Region	Global
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Packaging Features

Packaging Method	Bag & Box
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Other

Precision Level	Standard
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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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (.31% 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	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



TE Part # L000500-01
ANT-450-PW-LP



TE Part # L000503-02
ANT-450-CW, RCS-PRS



TE Part # L000503-01
ANT-450-CW-RCS-SMA



TE Part # L000501-01
ANT-450-PW-LPN



TE Part # L000502-01
ANT-450-CW-HW-SMA



TE Part # L000502-02
ANT-450-CW-HW-RPS

Documents

- Product Drawings
- ANTENNA, 5GL PW, LP
- English
- CAD Files
- 3D PDF



3D

Customer View Model

[ENG_CVM_CVM_L000939-01_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_L000939-01_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_L000939-01_A.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[L000939](#)

English

Product Specifications

[Product Specification](#)

English