L000502-02 ✔ ACTIVE

TE Internal #: L000502-02

Helical Antenna, LTE, External Mount, Connector Mount, RP-SMA, Omnidirectional, Single Port, < 0 dBi Peak Gain

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Antennas

Communication Protocol: **LTE**

Mounting Location: **External**

Mounting Type: **Connector Mount**

Frequency Category: **410 – 470**

Antenna Type: **Helical**

Features

Product Type Features

Antenna Termination	RP-SMA
Antenna Product Type	Antenna

Configuration Features

Antenna Style	Helical
Mounting Location	External
Antenna Type	Helical
Port Configuration	Single Port

Electrical Characteristics

Impedance	50 Ω
Antenna Operation	Active
VSWR (Max)	< 2.0:1

Signal Characteristics

Frequency Band	450 – 470 MHz
Frequency Category	410 – 470
Peak Gain	< 0 dBi

Body Features

Antenna Weight	12.4 g[.44 oz]

Mechanical Attachment

Polarization	Linear
Mounting Type	Connector Mount

Dimensions

Product Diameter	10.7 mm[.42 in]
Product Height	120 mm[4.72 in]

Operation/Application

Antenna Environment	Outdoor
Wireless Standard	LTE, UMTS, GSM
Directionality	Omnidirectional

Industry Standards

Communication Protocol	LTE
Primary Application	LTE

Product Availability

Applicable Region	Americas & EMEA

Packaging Features

Packaging Method	Bag & Box

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	Out of Scope
China RoHS 2 Directive MIIT Order No 32, 2016	未针对中国 RoHS 符合性进行审核 Not reviewed for China RoHS compliance
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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	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 # L000939-01
ANTENNA, 5GL PW, LP



TE Part # L000576-01
ANTENNA, 5GL CW-HW TYPE WHIP - SMA



TE Part # L000575-01
ANTENNA INTERNAL PW-LPN TYPE #6 SCREW



TE Part # L9000099-01
Antenna 1/4 Wave 2.4GHz Coil Screw #6

Customers Also Bought



TE Part #EXC450BN
DUCK,EXC,450-470 MHz BNCM,6 INCH,1/4W

TE Part #G450BN
DUCK,G,450-470MHz BNCM



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



TE Part #3-640441-2
02P MTA100 CONN ASSY WHT

Documents

Product Drawings

ANT-450-CW-HW-RPS

English

CAD Files

Customer View Model

ENG_CVM_CVM_L000502-02_1.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_L000502-02_1.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L000502-02_1.3d_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

Datasheet L000502

English