

ANT-2.4-USP-T

✓ ACTIVE

TE Internal #: L9000103-01
PCB Antenna, Single Band, Bluetooth / Zigbee / ISM, Internal
/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single
Port, Gain 3 < 6 dBi
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Antennas



Wireless Application: **Bluetooth, ISM, Zigbee**
Mounting Location: **Internal/Embedded**
Mounting Type: **Surface Mount**
Frequency Category: **2400 - 2500**
Antenna Type: **PCB**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

VSWR (Max)	<2.1:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	3.8 dB
Frequency Band	2400 - 2485 MHz
Frequency Category	2400 - 2500
Peak Gain	3 < 6 dBi

Body Features

Product Weight	.34 g[.01199 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Surface Mount

Dimensions

Product Width	9.14 mm[.36 in]
Product Length	12.7 mm[.5 in]
Product Height	1.57 mm[.06 in]

Operation/Application

Directionality	Omnidirectional
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Industry Standards

Wireless Application	Bluetooth, ISM, Zigbee
Primary Application	Bluetooth, ISM, Zigbee

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	Not Yet Reviewed
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: JAN 2024 (240) Candidate List Declared Against: JAN 2024 (240) 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




TE Part # L9000079-01
Antenna Mini R-Angle 2.4GHz THM




TE Part # L9000080-01
Antenna Mini 2.4GHz THM



TE Part # L9000099-01
Antenna 1/4 Wave 2.4GHz Coil Screw #10




TE Part # 2445750-1
ANTENNA 2.4GHz HELICAL VERTICAL THM




TE Part # L9000004-01
Eval Kit uSP 2.4GHz Antenna


Customers Also Bought




TE Part # 5747841-6
15 MSFL PLUG RA 318 (SL,FM,BL)




TE Part # 2199230-3
M.2 0.5PITCH 4.2H KEY B 15U" AU




TE Part # 3-640441-4
04P MTA100 CONN ASSY WHT




TE Part # 4-2176231-1
3522 470R 1% 3W



TE Part # 9-1879208-7
CPF 0402 100K 0.1% 25PPM 1K RL



TE Part # 9-1676481-0
CPF 0603 47K 0.1% 25PPM 1K RL



TE Part # 2-2176367-5
RQ 0603 8K25 0.1% 10PPM 1K RL

Documents

Product Drawings
Antenna uSP PCB RPC 2.4GHz SMT T&R
English



CAD Files

Customer View Model

[ENG_CVM_CVM_L9000103-01_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_L9000103-01_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_L9000103-01_A.3d_stp.zip](#)

English

3D PDF

3D

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Datasheets & Catalog Pages

[ANT-2.4-USP](#)

English

[Sub-6 Cellular LTE-5G NR Frequency Band Guide](#)

English

[Virtual Antenna](#)

English

[Microsplatch Ground Plane Optimization](#)

English