# ANT-2.4-USP-T ACTIVE

TE Internal #: L9000103-01

PCB Antenna, Single Band, Bluetooth / ISM / Zigbee, Internal /Embedded Mount, Surface Mount, Solder, Omnidirectional, Single

Port, 3 < 6 dBi Peak Gain

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#### Antennas



Antenna Type: PCB

Band Type: Single Band

Primary Application: Bluetooth, ISM, Zigbee
Wireless Application: Bluetooth, ISM, Zigbee
Mounting Location: Internal/Embedded

## **Features**

## **Product Type Features**

Antenna Termination	Solder
Antenna Product Type	Antenna
Configuration Features	

Antenna Style	PCB
Antenna Type	PCB
Band Type	Single Band

Mounting Location Internal/Embedded

Port Configuration Single Port

## **Electrical Characteristics**

Impedance	50 Ω
VSWR (Max)	<2.1:1

## Signal Characteristics

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

## **Body Features**

Product Weight	.34 g[.01199 oz]	



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
Industry Standards	
Primary Application	Bluetooth, ISM, Zigbee
Wireless 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 2025 (247) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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 uSP PCB RPC 2.4GHz SMT T&R

English

PCB Antenna, Single Band, Bluetooth / ISM / Zigbee, Internal/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single Port, 3 < 6 dBi Peak Gain



### 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

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

## Datasheets & Catalog Pages

ANT-2.4-USP

English