

ANT-2.4-CPA

✓ ACTIVE

TE Internal #: L9000015-01

Patch Antenna, Single Band, Bluetooth / ISM / Zigbee, Internal /Embedded Mount, Through-Hole/Tab Mount, Solder, Directional, Single Port

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Antennas



Communication Protocol: **Bluetooth, ISM, Zigbee**

Mounting Location: **Internal/Embedded**

Mounting Type: **Through-Hole/Tab Mount**

Frequency Category: **2400 – 2500**

Antenna Type: **Patch**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2.7:1

Signal Characteristics

Frequency Band	2400 – 2485 MHz
Gain (Max)	5.5 dB
Frequency Category	2400 – 2500
Peak Gain	3 < 6 dBi

Body Features

	.215 oz
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Mechanical Attachment

Polarization	RHCP
Mounting Type	Through-Hole/Tab Mount

Dimensions

Product Width	20 mm[.79 in]
Product Length	20 mm[.79 in]
Product Height	4 mm[.16 in]

Operation/Application

Directionality	Directional
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Industry Standards

Communication Protocol	Bluetooth, ISM, Zigbee
Primary Application	Bluetooth, ISM, Zigbee

Packaging Features

Packaging Method	Box & Tray
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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: JUNE 2025 (250) Candidate List Declared Against: JUNE 2024 (241) 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 # CONREVSMA001-G
RP-SMA Jack 50 Ohm PCB Through Hole

TE Part # L000697-80
Ceramic Patch with EVB, 2400-2500MHz

TE Part # CONREVSMA002-SMD-G
RP-SMA RA Jack 50 Ohm PCB Surface Mount

TE Part # L9000251-01
RP-SMA Jack 50 Ohm .062 PCB Edge Mount

TE Part # L9000254-01
RP-SMA Jack 50 Ohm .031 PCB Edge Mount

TE Part # L000697-01
Ceramic Patch ant, 2400-2500MHz, 12x12x4

Customers Also Bought

TE Part #ANT-915-CPA
Antenna CER Patch 40mm Sq 915MHz Adh THM

TE Part #284510-5
5P TERMI-BLOK PLUG CON VITI

TE Part #1746798-1
2.5MM PITCH BATTERY REC. ASSY 8POS. R/A

TE Part #2118310-1
4G World Band, MetaSpan, Tab Mt. PCB

TE Part #5-2176231-5
3522 1K8 1% 3W

TE Part #2-2176349-8
CRGCQ 2512 1K8 1%

TE Part #2-2176349-9
CRGCQ 2512 2K2 1%

TE Part #4-2176421-1
TLRP 2512 2.0W R200 1% 25PPM 4K RL



Documents

Product Drawings

Antenna CER Patch 20mm Sq 2.45GHz Adh

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_L9000015-01_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_L9000015-01_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L9000015-01_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

2.4 GHz Directional Embedded Ceramic Patch Antenna

English