

# ANT-2.4-CPA ✓ ACTIVE

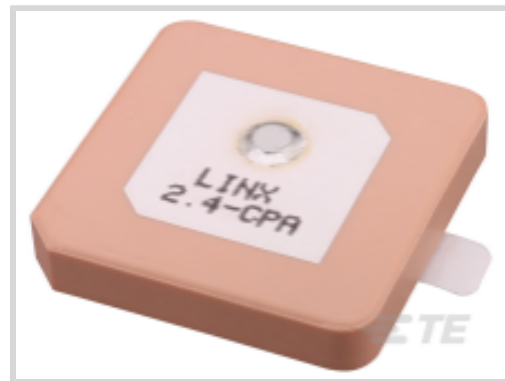
TE Internal #: L9000015-01

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

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## Antennas



Wireless Application: **Bluetooth, ISM, Zigbee**

Mounting Location: **Internal/Embedded**

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

Antenna Termination: **Solder**

Antenna Type: **Patch**

## Features

### Product Type Features

Antenna Product Type	Antenna
Antenna Termination	Solder

### Configuration Features

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

### Electrical Characteristics

VSWR (Max)	<2.7:1
Impedance	50 $\Omega$

### Signal Characteristics

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

### Body Features

Product Weight	6.1 g [.21516 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

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 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: JUNE 2023 (235) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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 # 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

## Customers Also Bought



TE Part #3-644083-5  
Nylon Tin Plated Receptacle: 2.54 mm, with Mating Alignment, MTA 100



TE Part #5-1734592-0  
FPC CONN. 0.5MM PITCH B/C, 50P



TE Part #3-2176070-9  
3521 390R 1% 2W



TE Part #1825027-2  
FSMRA1JH04=R/A,TACT PB SW,160G



TE Part #9-520193-2  
ULTRA-FAST 187 ASY REC 22-18 AWG TPBR



TE Part #2118725-2  
STD SHIELD COVER, CRS-44.97X44.97X2.00MM



TE Part #2118726-2  
STD SHIELD FRAME, CRS-44.37X44.37X9.75MM



TE Part #2176329-5  
CRGP 1210 22R 1%



TE Part #2337245-1  
TACT MINI JB 5.2X5.2X2 70GF

## Documents

### Product Drawings

[Antenna CER Patch 20mm Sq 2.45GHz Adh](#)

English

### Datasheets & Catalog Pages

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



English

[2.4 GHz Directional Embedded Ceramic Patch Antenna](#)

English

[Virtual Antenna](#)

English

[Microslatch Ground Plane Optimization](#)

English