

ANT-2.45-CHP-T

✓ ACTIVE

TE Internal #: L9000014-01

Chip Antenna, Single Band, Bluetooth / ISM / Zigbee, Internal /Embedded Mount, Surface Mount, Solder, Omnidirectional, Single Port, 0 < 3 dBi Peak Gain

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Antennas



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

Mounting Location: **Internal/Embedded**

Mounting Type: **Surface Mount**

Frequency Category: **2400 – 2500**

Antenna Type: **Chip**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2.1:1

Signal Characteristics

Frequency Band	2400 – 2485 MHz
Frequency Category	2400 – 2500
Peak Gain	0 < 3 dBi

Mechanical Attachment

Polarization	Linear
Mounting Type	Surface Mount



Dimensions

Product Width	6.5 mm[.26 in]
Product Length	2.2 mm[.09 in]
Product Height	1 mm[.04 in]

Operation/Application

Directionality	Omnidirectional
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Industry Standards

Communication Protocol	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	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 Bromine/Chlorine - Br and Cl < 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 # L000697-80
Ceramic Patch with EVB, 2400-2500MHz

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

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

Customers Also Bought

TE Part #1SNG625060R0000
EM-SGL-PG9-MET-C

TE Part #225255-E
M12 MALE, A CODE, RA, 4P THR REAR MOUNT

TE Part #ANT-916-CHP-T
Antenna Chip 916MHz SMT T&R

TE Part #216604-7
2X 7P HV190FEDERLEI

TE Part #CAT-104MTA-PRUSH
PCB Header: Polyester, Right Angle, Unshrouded

TE Part #1775073-1
SHIELD FINGER 434025N7

TE Part #4-5177986-5
0.8FH,P07H.5,120,15/Sn,TR,SC

BATTERY CO

TE Part #828801-6
2X 9P MESSERLEI 3,0

Documents

Product Drawings
Antenna Chip T&R 2.45GHz SMT
English



CAD Files

Customer View Model

ENG_CVM_CVM_L9000014-01_C.3d_igs.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_L9000014-01_C.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_L9000014-01_C.3d_stp.zip

English

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

Datasheets & Catalog Pages

Linx RF Module Identification guide

English

LTCC BLUETOOTH _ Wi-Fi 2450 MHz SMD ANTENNA-

English