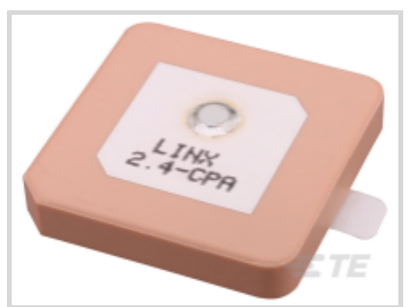
ANT-2.4-CPA ✔ ACTIVE

TE Internal #: L9000015-01

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

View on TE.com >

Antennas



Wireless Application: **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 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 Ω

Signal Characteristics

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

Body Features

Product Weight	6.1 g[.21516 oz]

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

Industry Standards

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

Packaging Features

Packaging Method	Box & Tray

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: JAN 2024 (240) Not Yet Reviewed
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 # 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

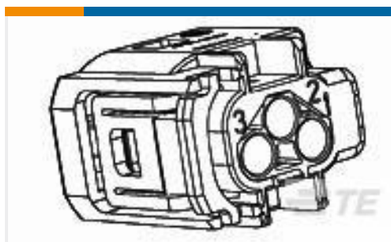


TE Part # L9000254-01
RP-SMA Jack 50 Ohm .031 PCB Edge Mount

Customers Also Bought



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



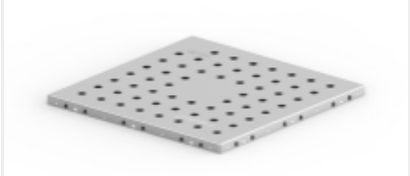
TE Part # 1-967642-1
3POS MQS REC SEALED COD A



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



TE Part # 644752-6
06P MTA156 HDR ASSY SQ STR F/L



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



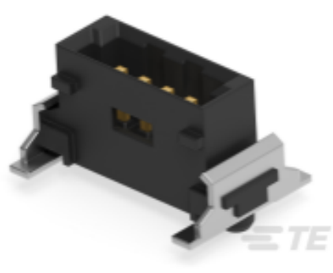
TE Part # 1005939-1
LDTC - Horizontal



TE Part # 3-644083-2
02P MTA100 CONN ASSY POL TAB



TE Part # 284695-E
SRCP 1,27 2 M 1 SMD 137 E1 094 * GU-H *



TE Part # 284697-E
SRCP 1,27 4 M 1 SMD 137 E1 094 * GU-H *

TE Part # 10220579-00
PRESS XDCR M5253-100005-10KPS

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 Conditionsof use.

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

Microsplatch Ground Plane Optimization

English