L000657-01 ✔ ACTIVE

TE Internal #: L000657-01

PCB Antenna, Wide Band, 5G, Internal/Embedded Mount, Printed Circuit Board Mount, SMD, Omnidirectional, Single Port, 3 < 6 dBi Peak Gain

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Antennas



Communication Protocol: **5G**

Mounting Location: **Internal/Embedded**

Mounting Type: **Printed Circuit Board Mount**

Frequency Category: **617 – 6000**

Antenna Type: **PCB**

Features

Product Type Features

Antenna Termination	SMD
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
Antenna Operation	Passive
VSWR (Max)	<4.5:1

Signal Characteristics

Frequency Band	617 – 5000 MHz

Gain (Max)	5.9 dB
Frequency Category	617 – 6000
Peak Gain	3 < 6 dBi

Body Features

Antenna Weight	1.7 g

Mechanical Attachment

Polarization	Linear
Mounting Type	Printed Circuit Board Mount

Dimensions

Product Width	10 mm[.393 in]
Product Length	50 mm[1.968 in]
Product Height	1.61 mm[.062 in]

Operation/Application

Antenna Environment	Indoor
Wireless Standard	LTE, UMTS, US Dual, EU Triband & WCDMA
Directionality	Omnidirectional

Industry Standards

Communication Protocol	5G
Primary Application	5G

Product Availability

Applicable Region	Worldwide

Packaging Features

Packaging Method	Reel/Box

Other

Precision Level	Standard

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	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 2025 (250) 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

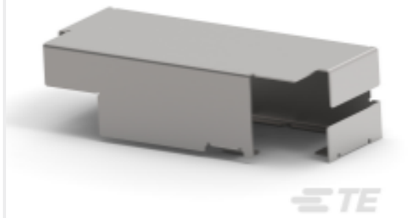
Product Compliance Disclaimer

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.

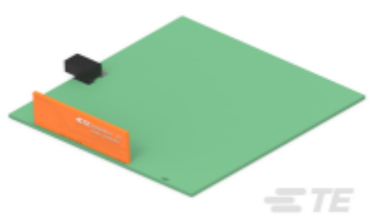
Compatible Parts



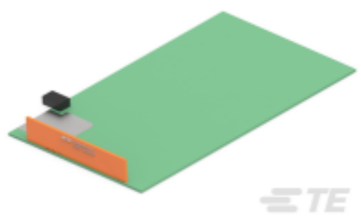
TE Part # 2108783-1
PCB ANTENNA, SMD, 617-3800MHz



TE Part # 2108823-1
Stamped antenna, SMD, 617-7125 MHz



TE Part # L000646-80
EVB, MIMO, 5G, ASSY



TE Part # L000645-80
EVB, LTE, 5G, ASSY



TE Part # 2108994-1
4G LTE Antenna (PCB Type), T&R PKG



TE Part # 2108784-1
PCB ANTENNA, SMD, 698-6000MHz



TE Part # L000682-01
SPLATCH 5G/LTE EUROPE WIDEBAND CHIP ANT



TE Part # L000938-01
Ceramic Antenna, 5G Full Band

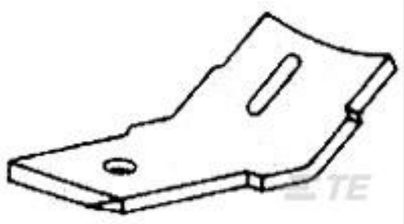


TE Part # L000645-01
PCB ANT, TAB MOUNT, 617-7125MHz



TE Part # L000657-80
EVB FOR SPLATCH 5G/LTE GLOBAL WIDEBAND

Customers Also Bought



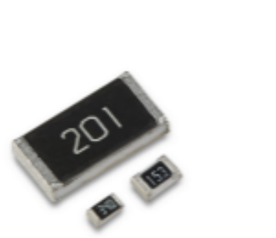
TE Part #61960-1
187 FASTON TAB NPST



TE Part #1614982-1
LR0204 1% 11K



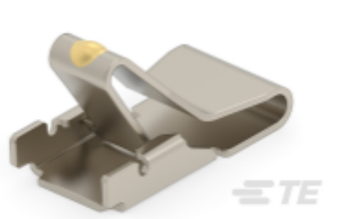
TE Part #2108832-1
Chip ant., SMD, BT/Wi-Fi 2.4GHz



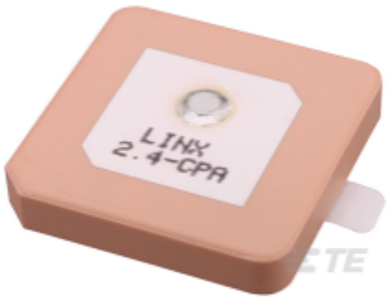
TE Part #1-2176330-0
CRGP 2010 56R 1%



TE Part #4-2176330-9
CRGP 2010 100K 1%



TE Part #2306334-3
SPRING FINGER 1.2H



TE Part #L9000015-01
Antenna CER Patch 20mm Sq 2.45GHz Adh



TE Part #L9000099-01
Antenna 1/4 Wave 2.4GHz Coil Screw #6



TE Part #L9000171-01
Antenna Dome WiFi6 2.4/5.8GHz 1.32 UFL



TE Part #5070012016
RNF-100-3/64-X-STK

Documents

Product Drawings

SPLATCH 5G/LTE GLOBAL WIDEBAND CHIP ANT

English

CAD Files

Customer View Model

ENG_CVM_CVM_L000657-01_2.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L000657-01_2.3d_stp.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_L000657-01_2.2d_dxf.zip

English

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

Datasheets & Catalog Pages

SPLATCH 5G/LTE GLOBAL CELLULAR WIDEBAND CHIP ANTENNA 617-5000MHz

English

Product Specifications

Product Specification

English