

1513247-1 ✓ ACTIVE

TE Internal #: 1513247-1

PCB Antenna, Dual Band, Cellular / ISM / LoRaWAN, Internal / Embedded Mount, Through-Hole/Tab Mount, Omnidirectional, 0 < 3 dBi Peak Gain

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Antennas



Antenna Type: **PCB**

Band Type: **Dual Band**

Primary Application: **Cellular, ISM, LoRaWAN**

Wireless Application: **Cellular, ISM, LoRaWAN, Zigbee**

Mounting Location: **Internal/Embedded**

Features

Product Type Features

Antenna Product Type	Antenna
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Configuration Features

Antenna Style	PCB
Antenna Type	PCB
Band Type	Dual Band
Mounting Location	Internal/Embedded

Electrical Characteristics

Impedance	50 Ω
Antenna Operation	Passive
VSWR (Max)	<3:1

Signal Characteristics

Frequency Band	1850 – 1990 MHz, 824 – 894 MHz
Gain (Max)	3 dB
Frequency Category	824 – 1990



Peak Gain	0 < 3 dBi
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Body Features

Product Weight	2 g[.0705 oz]
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Mechanical Attachment

Polarization	Linear
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Mounting Type	Through-Hole/Tab Mount
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Dimensions

Product Width	15.24 mm[.6 in]
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Product Length	38.1 mm[1.5 in]
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Product Height	1.63 mm[.064 in]
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Operation/Application

Wireless Standard	US Dual Band
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Directionality	Omnidirectional
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Industry Standards

Primary Application	Cellular, ISM, LoRaWAN
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Wireless Application	Cellular, ISM, LoRaWAN, Zigbee
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Product Availability

Applicable Region	Americas, EU
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Packaging Features

Packaging Method	Bag & Box
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Other

Precision Level	Standard
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
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EU ELV Directive 2000/53/EC	Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
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Halogen Content

BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.

Solder Process Capability

Hand solderable with lead free solder

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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



TE Part # 2336713-2
SPRING FINGER 1.45H



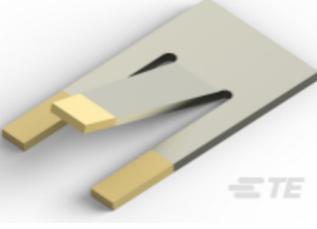
TE Part # 2040852-1
SHIELD FINGER 0820 N-B WITH SE



TE Part # 2306334-3
SPRING FINGER 1.2H



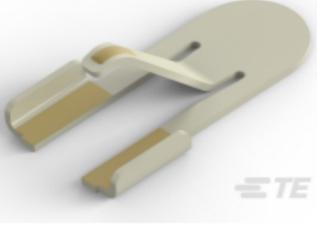
TE Part # 2306454-3
SPRING FINGER 2.3H



TE Part # 1447009-5
SHIELD FINGER 0820 TYPE



TE Part # 2199248-4
Shield Finger, Loose Piece, Type A, 1.0 h



TE Part # 2199248-5
SHIELD FINGER, LOOSE PIECE, TYPE A, 1.3H



TE Part # 2306654-3
SPRING FINGER 1.8H



TE Part # 2199001-1
SHIELD FINGER 1210 EMBOSS PACKING

Customers Also Bought



TE Part #1513430-2
PCB ANTENNA SINGLE BAND BULK
PKG



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



TE Part #2108991-1
Helical Antenna,PCB,SMT, For IoT

Documents

Product Drawings

PCB US DUAL BAND ANTENNA

English

CAD Files

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_1513247-1_H1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1513247-1_H1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_1513247-1_H1.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

PCB ANTENNA

English

Product Specifications

Product Specification

English