

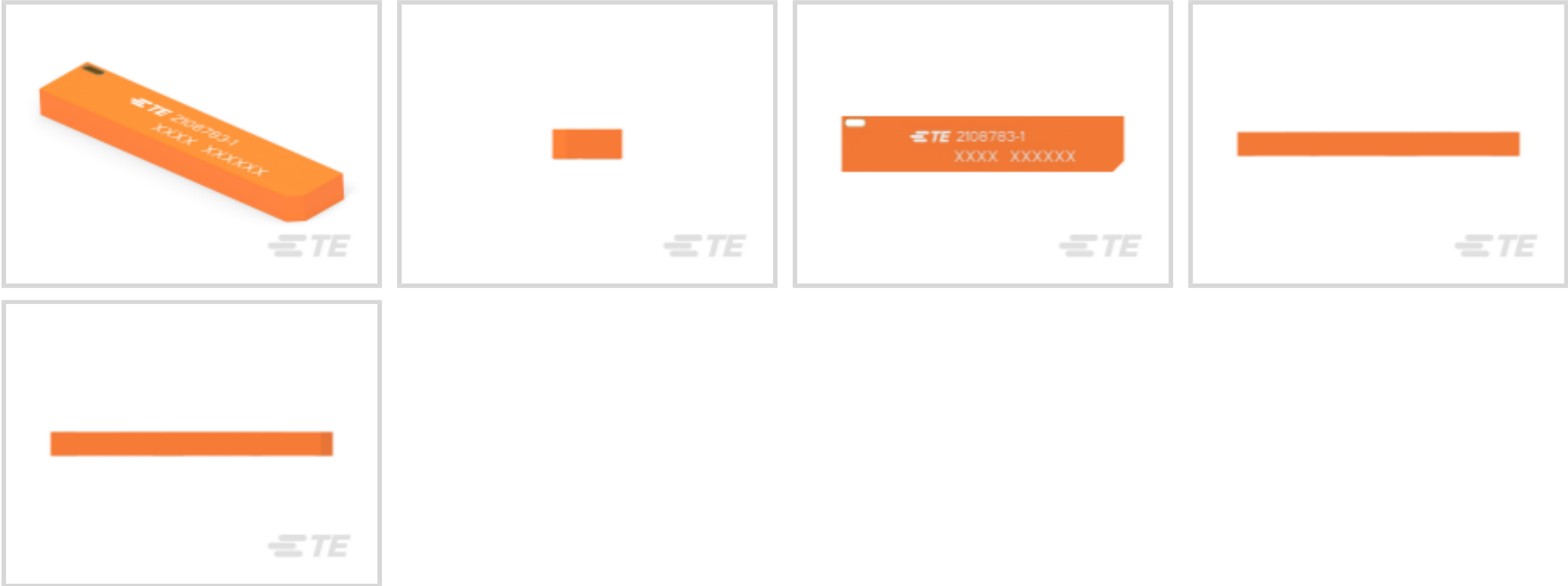


TE Internal #: 2108783-2

Chip Antenna, Multi Band, 5G / Cat-M/NB-IoT / Cellular, Internal /Embedded Mount, Surface Mount, Omnidirectional, Single Port, 3 < 6 dBi Peak Gain

[View on TE.com >](#)

Antennas



Communication Protocol: 5G, Bluetooth, Cat-M/NB-IoT, Cellular, ISM, LoRaWAN, LPWA, Wi-Fi

Mounting Location: Internal/Embedded

Mounting Type: Surface Mount

Frequency Category: 617 – 3800

Antenna Type: Chip

Features

Product Type Features

Antenna Product Type	Antenna
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Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2:1

Signal Characteristics

Frequency Band	617 – 920 MHz, 1427 – 1608 MHz, 1710 – 2900 MHz, 3300 – 3800 MHz
Gain (Max)	2 dB, 2.5 dB, 3.2 dB, 4.9 dB
Frequency Category	617 – 3800



Peak Gain	3 < 6 dBi
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Body Features

Product Weight	1.5 g[.052 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Surface Mount

Dimensions

Product Width	7.5 mm[.295 in]
Product Length	38 mm[1.535 in]
Product Height	3.18 mm[.125 in]

Operation/Application

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

Industry Standards

Communication Protocol	5G, Bluetooth, Cat-M/NB-IoT, Cellular, ISM, LoRaWAN, LPWA, Wi-Fi
Primary Application	5G, Cat-M/NB-IoT, Cellular

Product Availability

Applicable Region	Global
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Packaging Features

Packaging Method	Tape & Reel
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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
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250)



Candidate List Declared Against: JAN 2025
(247)
Does not contain REACH SVHC

Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability Reflow solder capable to 245°C

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>

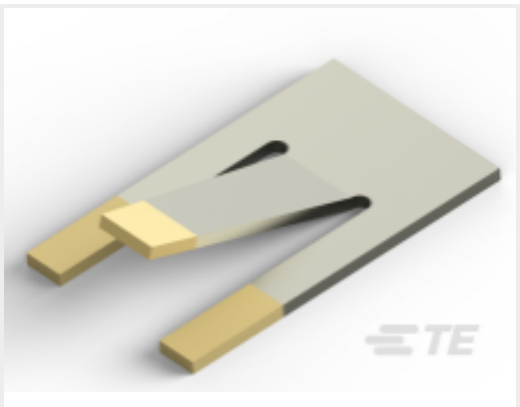
Compatible Parts



TE Part # 2336713-2
SPRING FINGER 1.45H



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



TE Part # 1447009-5
SHIELD FINGER 0820 TYPE



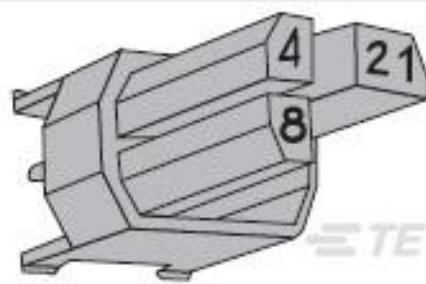
TE Part # 2199248-4
Shield Finger, Loose Piece, Type A, 1.0h



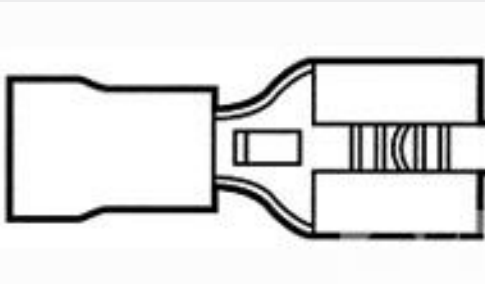
TE Part # L000682-01
SPLATCH 5G/LTE EUROPE
WIDEBAND CHIP ANT

Customers Also Bought





TE Part #100525-9
[Z-PACK M.CODING KEY](#)



TE Part #9-160583-5
[250 PIDG FASTON REC](#)



TE Part #1571300-2
[TACT,RTANG,SMT,SEALED,GUID PIN](#)



TE Part #1676914-1
[YR1 0.1% 34K8](#)



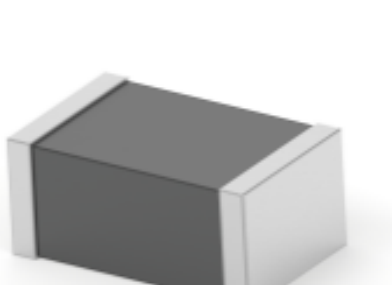
TE Part #2-1761679-3
[IDC LOW PRO HDR 10P VERT BLUE](#)



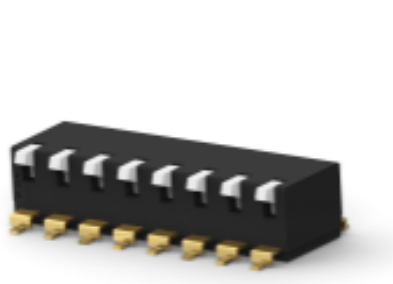
TE Part #8-1879336-7
[CPF 0603 1K82 1% 50PPM 1K RL](#)



TE Part #4-2176055-3
[RLP73K 2B R56 1% 1K RL](#)



TE Part #2176486-2
[BMC 0805 120R 25% A Gen C](#)



TE Part #2319764-4
[E STACK PIANO 8P G LONG TUBE PD ON](#)



TE Part #3-6318491-6
[.5FHP08H,220,S,GIG,08/Sn,HT,NSYes](#)

Documents

Product Drawings

[PCB ANTENNA, SMD, 617-3800MHz](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_2108783-2_A1.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2108783-2_A1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2108783-2_A1.3d_igs.zip](#)

English

[3D PDF](#)

3D

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

Datasheets & Catalog Pages



PCB ANTENNA, SMD, 617-3800MHz

English

Product Specifications

Product Specification

English