

ANT-2.4-MSA-TH1 ✓ ACTIVE

TE Internal #: L9000090-01

Stamped Metal Antenna, Single Band, Zigbee / ISM / Bluetooth,
Internal/Embedded Mount, Through-Hole/Tab Mount, Solder,
Omnidirectional, Single Port

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Antennas



Wireless Application: **Bluetooth, ISM, Zigbee**

Mounting Location: **Internal/Embedded**

Mounting Type: **Through-Hole/Tab Mount**

Antenna Termination: **Solder**

Antenna Type: **Stamped Metal**

Features

Product Type Features

Antenna Product Type	Antenna
Antenna Termination	Solder

Configuration Features

Mounting Location	Internal/Embedded
Antenna Type	Stamped Metal
Band Type	Single Band
Port Configuration	Single Port

Signal Characteristics

Nominal Frequency Range	2400 – 2500
Peak Gain	3 < 6 dBi

Mechanical Attachment

Mounting Type	Through-Hole/Tab Mount
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Operation/Application

Directionality	Omnidirectional
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Industry Standards

Wireless Application	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
EU ELV Directive 2000/53/EC	Not Yet Reviewed
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 2023 (235) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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

 <p>TE Part # 2445750-1 ANTENNA 2.4GHz HELICAL VERTICAL THM</p>	 <p>TE Part # L9000003-01 Eval Kit Metal Stamp 2.4GHz Antenna</p>
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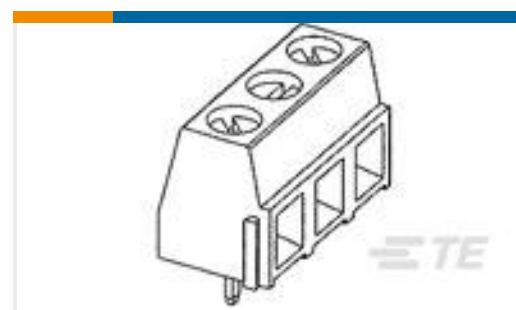
Customers Also Bought



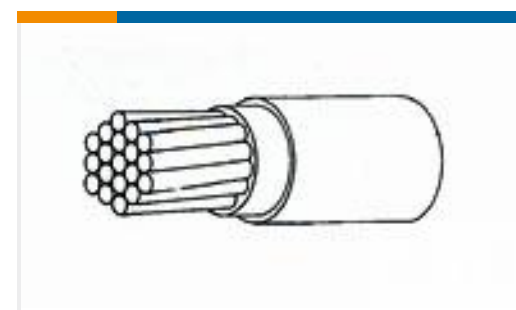
TE Part #2108609-5
3.0H SPRING FINGER WITH EMBOSS



TE Part #1903646-1
SHIELD FINGER 3014 LOW FORCE



TE Part #282837-9
TERMI-BLOK PCB MOUNT 9P



TE Part #189651-000
22759/43-16-5



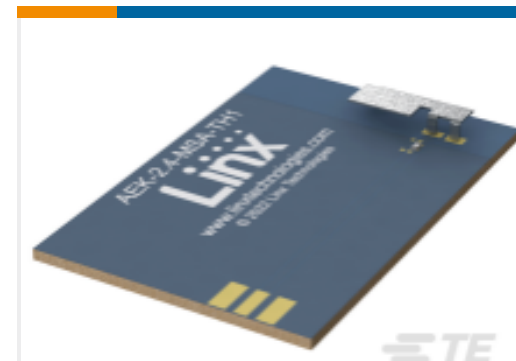
TE Part #0600-00029
ANT, 900MHZ, 2.5DBI



TE Part #L9000221-01
Antenna WiFi6/6E FPC SH 12x12 50
UFL



TE Part #L9000246-01
MCX Jack 50 Ohm .062 PCB Edge
Mount



TE Part #L9000003-01
Eval Kit Metal Stamp 2.4GHz Antenna



TE Part #HDC26-18-JDL
COVER HDP 18 SHL RC RUBBER LYD

Documents

Product Drawings

[Antenna 2.4GHz Metal Stamp THM](#)

English

Datasheets & Catalog Pages

[Sub-6 Cellular LTE-5G NR Frequency Band Guide](#)

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[Virtual Antenna](#)

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[Microplatch Ground Plane Optimization](#)

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[Stamped Metal 2.4 GHz ISM/Bluetooth Antenna](#)

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[VHETH Antenna Series Ground Plane Optimization](#)

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[Considerations for Operation within the 260-470MHz Band](#)

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[Proper PCB Design for Embedded Antennas](#)



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[Understanding Antenna Specifications and Operation](#)

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[Antennas Design, Application and Performance](#)

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[Antenna Color Codes](#)

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[The FCC Road Part 15 From Concept to Approval](#)

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[Solder Reflow Practices - Connectors](#)

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[RF 101 Information for the RF Challenged](#)

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