

ANT-2.4-MSA-TH1 ✓ ACTIVE

TE Internal #: L9000090-01

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

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Antennas



Communication Protocol: **Bluetooth, ISM, Zigbee**

Mounting Location: **Internal/Embedded**

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

Frequency Category: **2400 – 2500**

Antenna Type: **Stamped Metal**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Signal Characteristics

Frequency Category	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

Communication Protocol	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	Not Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量超出标准 Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	<p>Current ECHA Candidate List: JUNE 2025 (250)</p> <p>Candidate List Declared Against: JAN 2025 (247)</p> <p>SVHC > Threshold: Pb (4% in Component Part)</p> <p>Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.</p>
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
<p>Product Compliance Disclaimer</p> <p>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.</p>	

Compatible Parts



Customers Also Bought



TE Part #T4133012041-000
M12, FRONT MOUNT, FEMALE, A, 4P, SOLDER WIRE



TE Part #HD34-24-33PN
REC, 33P, AL, N, 20, P



TE Part #ANT-W63-IPW1-NP
Antenna WIFI6/6E IP67 Whip N Plug



TE Part #BAT-HLD-001
Hldr fr CR2032 Batteries, SMT, Blk Pkg



TE Part #292230-3
1.5 MINI CT SGL V SMT W/BOSS 3



TE Part #1744426-4
Header Housing Assy, EP 2.5 RA, 4 Pos.



TE Part #CAT-F299-B3221
FBIS II Plug and Receptacle Assemblies



TE Part #1-2176331-5
CRGP 2512 150R 1%



TE Part #2314507-1
6POS,TAB0.5X0.4,HDR ASSY,180DEG, COD A

Documents

Product Drawings

[Antenna 2.4GHz Metal Stamp THM](#)

English

CAD Files

[Customer View Model](#)

[ENG_CVM_CVM_L9000090-01_A.2d_dxf.zip](#)

English

[Customer View Model](#)

[ENG_CVM_CVM_L9000090-01_A.3d_igs.zip](#)

English

[Customer View Model](#)

[ENG_CVM_CVM_L9000090-01_A.3d_stp.zip](#)

English

3D PDF

3D

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

Datasheets & Catalog Pages

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

English