

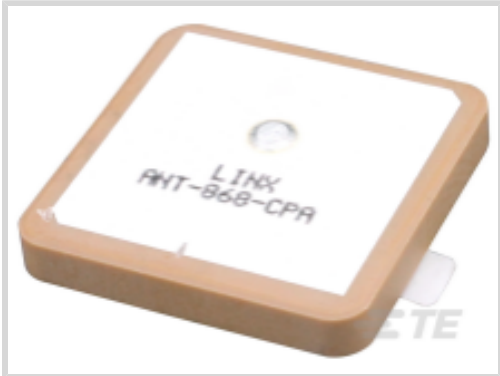
ANT-868-CPA

✓ ACTIVE

TE Internal #: ANT-868-CPA
Patch Antenna, Single Band, LPWAN / LoRaWAN, Internal
/Embedded Mount, Through-Hole/Tab Mount, Solder, Directional,
Single Port, 0 < 3 dBi Peak Gain
[View on TE.com >](#)



Antennas



Communication Protocol: **LoRaWAN, LPWAN, Wi-Fi**
Mounting Location: **Internal/Embedded**
Mounting Type: **Through-Hole/Tab Mount**
Frequency Category: **862 – 870**
Antenna Type: **Patch**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<9.5:1

Signal Characteristics

Frequency Band	868 MHz
Gain (Max)	1.4 dB
Frequency Category	862 – 870
Peak Gain	0 < 3 dBi

Body Features

	.466 oz
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Mechanical Attachment

Polarization	RHCP
Mounting Type	Through-Hole/Tab Mount

Dimensions

Product Width	25 mm[.98 in]
Product Length	25 mm[.98 in]
Product Height	4 mm[.16 in]

Operation/Application

Directionality	Directional
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Industry Standards

Communication Protocol	LoRaWAN, LPWAN, Wi-Fi
Primary Application	LoRaWAN, LPWAN

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	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) Not Yet Reviewed
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



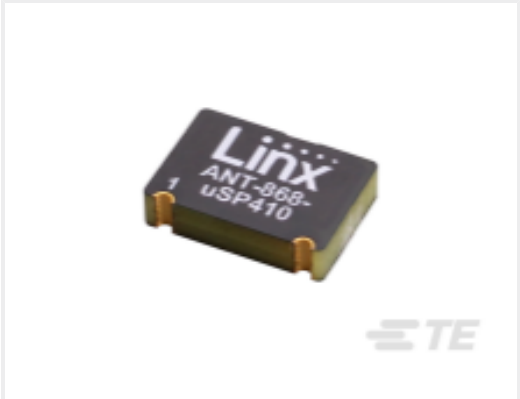
TE Part # ANT-868-CHP-T
Antenna Chip T&R 868MHz SMT



TE Part # ANT-868-HESM
Antenna 1/4 Wave Coil 868MHz SMT



TE Part # ANT-868-HETH
Antenna 1/4 Wave Coil 868MHz THM



TE Part # L9000152-01
Antenna uSP PCB RPC 410 868MHz SMT T&R

Customers Also Bought



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



TE Part #ANT-868-JJB-HT-T
Antenna Mini Hi-Temp 868MHz THM T&R



TE Part #1SNF100030R0000
DL25/18.PVL



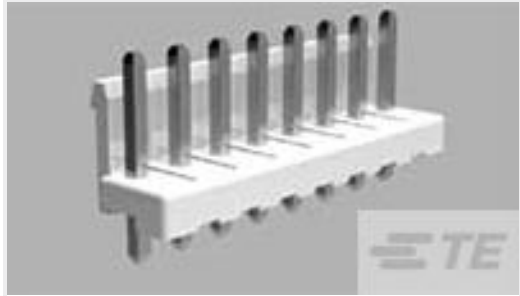
TE Part #CAF95956
ANT,Micropshere



TE Part #292303-1
Std USB Type A, R/A, T/H



TE Part #640455-2
02P MTA100 HDR ASSY SQ R/A POL



TE Part #2-1123723-2
3.96 EP HDR ASSY 2P(YELLOW)



TE Part #3-1879215-0
CPF 0402 8K25 0.1% 25PPM 1K RL



TE Part #7-2176088-1
RP 1J 0.166W 4K87 0.1% 25PPM 1K RL



TE Part #7-2176088-3
RP 1J 0.166W 5K11 0.1% 25PPM 1K RL

Documents

Product Drawings
Antenna CER Patch 25mm Sq 868MHz Adh
English



CAD Files

Customer View Model

[ENG_CVM_CVM_ANT-868-CPA_A.3d_igs.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_ANT-868-CPA_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-868-CPA_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[868 MHz Directional Embedded Ceramic Patch Antenna](#)

English