

ANT-868-HESM ✓ ACTIVE

TE Internal #: ANT-868-HESM

Helical Antenna, Single Band, LoRaWAN / LPWAN, Internal /Embedded Mount, Surface Mount, Solder, Omnidirectional, Single Port, Gain 3 < 6 dBi

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Antennas



Wireless Application: **LoRaWAN, LPWAN, Wi-Fi**

Mounting Location: **Internal/Embedded**

Mounting Type: **Surface Mount**

Antenna Termination: **Solder**

Antenna Type: **Helical**

Features

Product Type Features

Antenna Termination	Solder
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Configuration Features

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

Electrical Characteristics

VSWR (Max)	<2.2:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	5.6 dB
Frequency Band	868 MHz
Nominal Frequency Range	862 – 870
Peak Gain	3 < 6 dBi

Body Features

Product Weight	1 g[.03527 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Surface Mount

Dimensions

Product Width	8.9 mm[.35 in]
Product Length	25.4 mm[1 in]
Product Height	0 mm[0 in]

Operation/Application

Directionality	Omnidirectional
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Industry Standards

Wireless Application	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	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



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



TE Part # ANT-868-CPA
Antenna CER Patch 25mm Sq 868MHz Adh



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



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



TE Part # ANT-868-JJB-RA
Antenna Mini R-Angle 868MHz THM



TE Part # ANT-868-JJB-ST
Antenna Mini Straight 868MHz THM



TE Part # ANT-868-PW-LP
Antenna 1/4 Wave 868MHz Screw #10



TE Part # ANT-868-SP
Antenna SP PCB RPC 868MHz SMT



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



TE Part # L9000140-01
Antenna 1/4 Wave 868/915 Coil Screw #10

Customers Also Bought



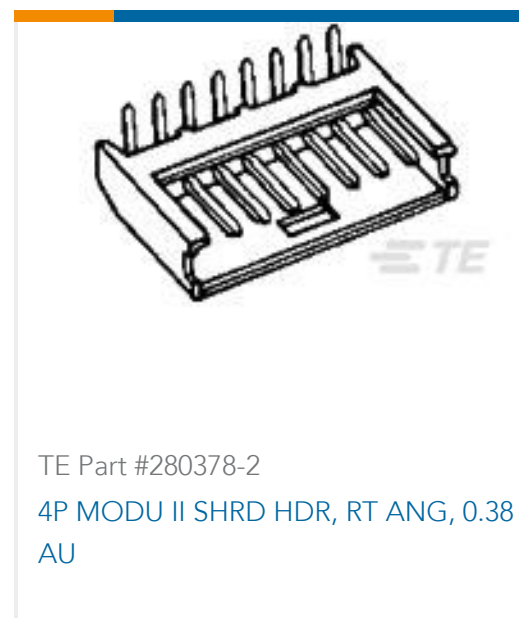
TE Part #8-215079-2
MICRO-MATCH FOB.12P



TE Part #1-2176230-6
3522 15R 5% 3W



TE Part #1825057-5
ADE0604=DIP SWITCH,EXT,THRU/HL



TE Part #280378-2
4P MODU II SHRD HDR, RT ANG, 0.38 AU



TE Part #1825232-1
SLIDE SWITCH,SPDT,Right Angle



TE Part #2328823-2
LUMAWISE S 80MM DIA DOME SMOKE GRAY MED



TE Part #2-2176343-3
CRGCO 1206 680R 1%



TE Part #2-2176330-1
CRGP 2010 470R 1%



Documents

Datasheets & Catalog Pages

[HE Series 868 MHz Helical Antenna](#)

English

[868 MHz Helical Antenna](#)

English