

ANT-418-HETH

✓ ACTIVE

TE Internal #: ANT-418-HETH
Helical Antenna, Single Band, Cat-M/NB-IoT / Cellular, Internal
/Embedded Mount, Through-Hole/Tab Mount, Solder,
Omnidirectional, Single Port
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Antennas



Communication Protocol: **Cat-M/NB-IoT, Cellular**
Mounting Location: **Internal/Embedded**
Mounting Type: **Through-Hole/Tab Mount**
Frequency Category: **410 – 470**
Antenna Type: **Helical**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2.1:1

Signal Characteristics

Frequency Band	418 MHz
Frequency Category	410 – 470
Peak Gain	0 < 3 dBi

Body Features

Antenna Weight	3.58 g[.126 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Through-Hole/Tab Mount

Dimensions

Product Width	8.9 mm[.35 in]
Product Length	38.1 mm[1.5 in]
Product Height	0 mm[0 in]

Operation/Application

Directionality	Omnidirectional
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Industry Standards

Communication Protocol	Cat-M/NB-IoT, Cellular
Primary Application	Cat-M/NB-IoT, Cellular

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) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
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-418-PW-LP
Antenna 1/4 Wave 418MHz Screw #6



TE Part # ANT-418-HESM
Antenna 1/4 Wave Coil 418MHz SMT



TE Part # ANT-418-PW-RA
Antenna 1/4 Wave 418MHz Swivel Screw #6



TE Part # ANT-418-USP-T
Antenna uSP PCB RPC 418MHz SMT T&R

Customers Also Bought



TE Part #ANT-433-HETH
Antenna 1/4 Wave Coil 433MHz THM



TE Part #RXM-418-LR
Module LR 418MHz AM OOK RX RCVR



TE Part #LICAL-DEC-MS001
DECODER MS IC CHIP RC PROTOCOL T&R



TE Part #8-87589-5
08 MODII HDR DRST SHRD .100CL



TE Part #6-104363-0
11 MTE HDR SRST LATCH .100CL



TE Part #5-534206-4
08 MODII VRT DR CE 100/115



TE Part #641963-1
02P UMNL PIN HDR ASSY POL NATL



TE Part #641965-1
03P UMNL PIN HDR ASSY V2 NATL



TE Part #1586086-1
04P UMNL PIN HDR ASSY W/O DRNS



TE Part #8-1879354-2
RR03 5% 750R AMMO

Documents

Product Drawings
Antenna 1/4 Wave Coil 418MHz THM



English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_ANT-418-HETH_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_ANT-418-HETH_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_ANT-418-HETH_B.3d_stp.zip

English

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Datasheets & Catalog Pages

ANT-418-HETH

English