

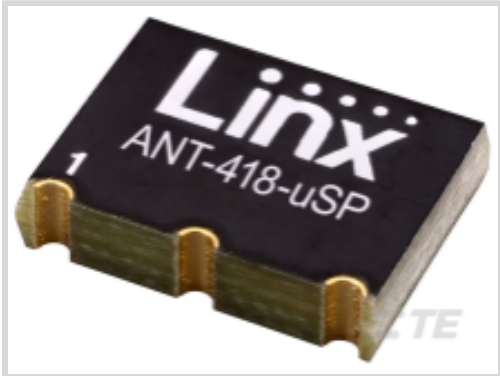
ANT-418-USP-T

✓ ACTIVE

TE Internal #: ANT-418-USP-T  
PCB Antenna, Single Band, Cat-M/NB-IoT / Cellular, Internal  
/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single  
Port, Gain < 0 dBi  
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Antennas



Wireless Application: **Cat-M/NB-IoT, Cellular**  
Mounting Location: **Internal/Embedded**  
Mounting Type: **Surface Mount**  
Frequency Category: **410 – 470**  
Antenna Type: **PCB**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

VSWR (Max)	<1.9:1
Impedance	50 Ω

Signal Characteristics

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

Body Features

Product Weight	.34 g[.01199 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Surface Mount

Dimensions

Product Width	9.14 mm[.36 in]
Product Length	12.7 mm[.5 in]
Product Height	2.62 mm[.1 in]

Operation/Application

Directionality	Omnidirectional
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Industry Standards

Wireless Application	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	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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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-HESM  
Antenna 1/4 Wave Coil 418MHz SMT



TE Part # ANT-418-HETH  
Antenna 1/4 Wave Coil 418MHz THM




TE Part # ANT-418-PW-LP  
Antenna 1/4 Wave 418MHz Screw #10



TE Part # ANT-418-SP  
Antenna SP PCB RPC 418MHz SMT


Customers Also Bought



TE Part #8-1437657-0  
8PCV-04-006=#8 TRIBARRIER




TE Part #1622829-2  
CRG0603 1% 10K 10K RL




TE Part #2-1879495-2  
CRGH0603 5% 100K 0.2W




TE Part #1-282836-3  
TERMI BLOK PCB MOUNT SIDE ENTR




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



TE Part #ANT-315-CW-HD  
Antenna 1/4 Wave Whip 315MHz RPS




TE Part #RXM-418-KH3  
Module KH3 418MHz AM OOK RX RCVR



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



TE Part #TXM-418-KH3  
Module KH3 418MHz AM OOK TX XMTR



TE Part #TXM-418-LR  
Module LR 418MHz AM OOK TX XMTR

Documents

Product Drawings  
Antenna uSP PCB RPC 418MHz SMT T&R  
English



CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_ANT-418-USP-T\_C.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_ANT-418-USP-T\_C.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_ANT-418-USP-T\_C.3d\_stp.zip

English

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

Datasheets & Catalog Pages

ANT-418-USP

English