

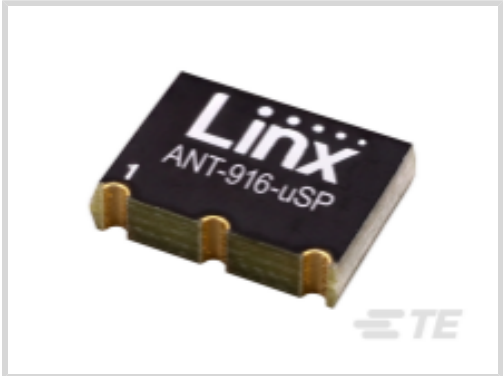
ANT-916-USP-T

✓ ACTIVE

TE Internal #: L9000161-01
PCB Antenna, Single Band, LPWAN / LoRaWAN, Internal
/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single
Port, 0 < 3 dBi Peak Gain
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Antennas



Antenna Type: **PCB**
Band Type: **Single Band**
Primary Application: **LoRaWAN, LPWAN**
Wireless Application: **LoRaWAN, LPWAN, Wi-Fi**
Mounting Location: **Internal/Embedded**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2.1:1

Signal Characteristics

Frequency Band	915 MHz
Frequency Category	902 – 930
Peak Gain	0 < 3 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

Primary Application	LoRaWAN, LPWAN
Wireless Application	LoRaWAN, LPWAN, Wi-Fi

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: JAN 2025 (247) 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 # L000971-80
EVB ANT, 915MHz, 5x3x0.5

TE Part # CONUFL001-SMD
Conn UFL MHF Straight PCB Mount Jack

TE Part # L000968-01
CER CHIP ANT, 902~928MHz, 10x3.2x0.5

TE Part # L000968-80
EVB ANT, 902~928MHz, 10x3.2x0.5

TE Part # L000971-01
CER CHIP ANT, 915MHz, 5x3x0.5

TE Part # CONMHF1-SMD-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount

TE Part # CONMHF1-SMD-G-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount

TE Part # CONUFL001-SMD-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount

Customers Also Bought

TE Part #2329387-7
PB OFF/ON FC RED M1 TERM RED LED IP68

TE Part #5-2176307-4
RP 1E 0.1W 44K2 0.1% 25PPM 5K RL

TE Part #2329328-4
PB OFF/ON HC GRE M1 TERM. IP68

TE Part #6609054-2
3EHQ3=F7672 S0

TE Part #2-2176738-5
3655 0603 27N 5% T&R

TE Part #5786676-1
6 CIRC DIN RCPT W/GRND FINGERS

TE Part #4-1879128-1
RN 0402 750R 0.1% 10PPM 1K RL

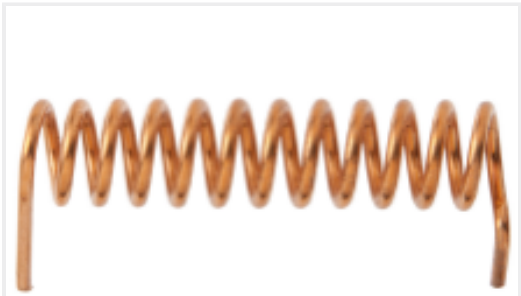
TE Part #2411062-2
RF CA,UMCC GEN1,1.13MM,L100MM PIGTAIL

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PCB Antenna, Single Band, LPWAN / LoRaWAN, Internal/Embedded Mount, Surface Mount, Solder, Omnidirectional, Single Port, 0 < 3 dBi Peak Gain



TE Part #5-534978-3
[20 MODII 2PC HDR DR W/HLDWN, ROHS](#)



TE Part #ANT-418-HESM
[Antenna 1/4 Wave Coil 418MHz SMT](#)

Documents

Product Drawings

[Antenna uSP PCB RPC 916MHz SMT T&R](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_L9000161-01_A.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_L9000161-01_A.3d_stp.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_L9000161-01_A.2d_dxf.zip](#)

English

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Datasheets & Catalog Pages

[ANT-916-USP](#)

English