

ANT-433-PW-QW-UFL ✓ ACTIVE

TE Internal #: ANT-433-PW-QW-UFL

Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN,
External Mount, Stud/Screw/Lug Mount, MHF / MHF1 / UMCC,
Omnidirectional, Single Port

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Antennas



Wireless Application: **LoRaWAN, LPWAN**

Mounting Location: **External**

Mounting Type: **Stud/Screw/Lug Mount**

Frequency Category: **410 – 470**

Antenna Type: **Terminal/Duck**

Features

Product Type Features

Antenna Termination	MHF, MHF1, U.FL, UMCC
Antenna Product Type	Antenna

Configuration Features

Antenna Style	Whip
Mounting Location	External
Antenna Type	Terminal/Duck
Band Type	Single Band
Port Configuration	Single Port

Electrical Characteristics

VSWR (Max)	<1.9:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	3.3 dB
Frequency Band	433 MHz
Frequency Category	410 – 470
Peak Gain	3 < 6 dBi

Body Features

Product Weight	24.39 g[.86031 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Stud/Screw/Lug Mount

Dimensions

Cable Length	.21 m[.71 ft]
Product Width	14.5 mm[.57 in]
Product Length	173 mm[6.81 in]
Product Height	0 mm[0 in]

Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

Industry Standards

Wireless Application	LoRaWAN, LPWAN
Primary Application	LoRaWAN, LPWAN

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	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) SVHC > Threshold: Pb (4% in Component Part) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
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-433-PW-QW
Antenna 1/4 Wave Whip 433MHz
RG174



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



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



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



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

Customers Also Bought



TE Part #2423999-1
Std MIL-DTL-38999 Series Conn Gasket



TE Part #2-1761606-9
IDC LOW PRO HDR 26P VERT LG LA



TE Part #1419108-1
RT114012



TE Part #5-5530843-0
CONN SEC II 10 POS 100C/L



TE Part #ANT-433-PW-QW
Antenna 1/4 Wave Whip 433MHz
RG174



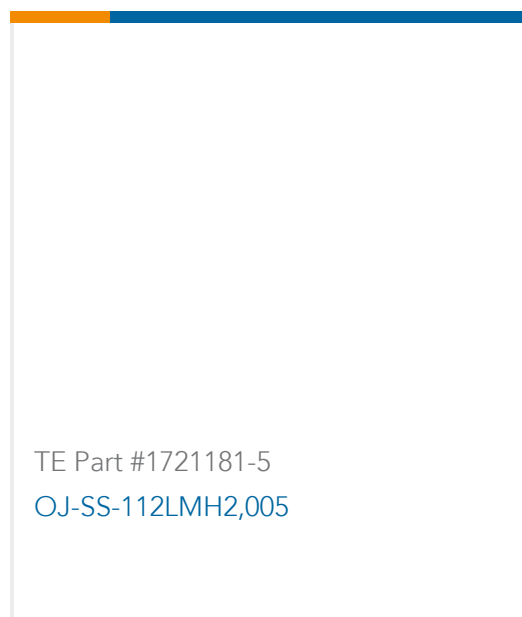
TE Part #ANT-916-PW-LP
Antenna 1/4 Wave 916MHz Screw #10



TE Part #BAT-HLD-001
Battery Holder 2032 2025 SMT Bulk
Pack



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



Documents

Product Drawings

[Antenna 1/4 Wave Whip 433MHz 1.32 UFL](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_ANT-433-PW-QW-UFL_C.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-433-PW-QW-UFL_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-433-PW-QW-UFL_C.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[ANT-433-PW-QW-xxx](#)

English