

ANT-868-PW-QW-UFL

✓ ACTIVE

TE Internal #: ANT-868-PW-QW-UFL
Terminal/Duck Antenna, Single Band, LPWAN / LoRaWAN,
External Mount, Stud/Screw/Lug Mount, MHF / MHF1 / U.FL,
Omnidirectional, Single Port
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Antennas



Wireless Application: **LoRaWAN, LPWAN, Wi-Fi**
Mounting Location: **External**
Mounting Type: **Stud/Screw/Lug Mount**
Frequency Category: **862 – 870**
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)	<2.1:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	1.2 dB
Frequency Band	868 MHz
Frequency Category	862 – 870
Peak Gain	0 < 3 dBi

Body Features

Product Weight	18.91 g[.66701 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	83.5 mm[3.29 in]
Product Height	0 mm[0 in]

Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

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 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) 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


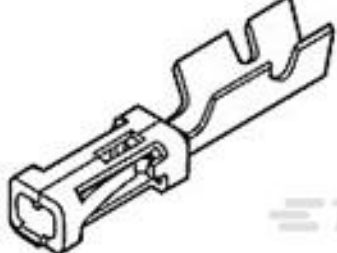
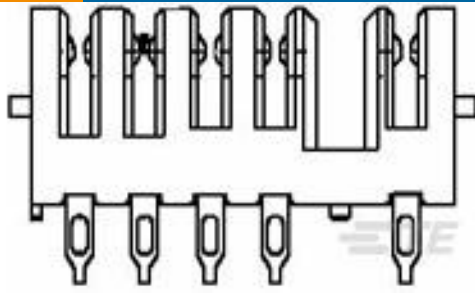

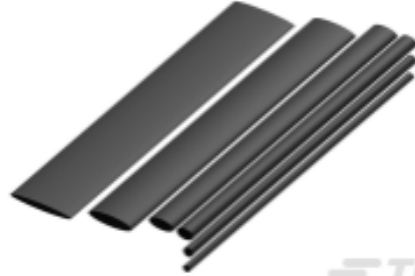





product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts

 <p>TE Part # ANT-868-PML Antenna R-Angle Swivel 868MHz RG178</p>	 <p>TE Part # ANT-868-PW-QW Antenna 1/4 Wave Whip 868MHz RG174</p>	 <p>TE Part # ANT-868-PW-RA Antenna 1/4 Wave 868MHz Swivel Screw #6</p>	 <p>TE Part # CONMHF1-SMD-G-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>
 <p>TE Part # CONMHF1-SMD-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>	 <p>TE Part # CONUFL001-SMD Conn UFL MHF Straight PCB Mount Jack</p>	 <p>TE Part # CONUFL001-SMD-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>	

Customers Also Bought

 <p>TE Part #87499-7 04 MODIV HSG SR MRKD .100CL</p>	 <p>TE Part #102128-2 MOD V RECP LP</p>	 <p>TE Part #1565986-1 REC ASSY,2.5 SLIM BATTERY CONN</p>	 <p>TE Part #2842102-4 4P,2MM,BRK HDR,SRVT,SMD,0.1AU, TR W/CAP</p>
 <p>TE Part #CB5349-000 SST-FR Heat Shrink Tubing</p>	 <p>TE Part #1-87499-1 06 MODIV HSG SR MRKD .100CL</p>	 <p>TE Part #L9000021-01 Antenna 1/2 Wave Whip 2.4GHz SMA</p>	 <p>TE Part #ANT-916-PW-QW-UFL Antenna 1/4 Wave Whip 916MHz 1.32 UFL</p>



Documents

Product Drawings

[Antenna 1/4 Wave Whip 868MHz 1.32 UFL](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_ANT-868-PW-QW-UFL_C.3d_stp.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_ANT-868-PW-QW-UFL_C.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-868-PW-QW-UFL_C.2d_dxf.zip](#)

English

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Datasheets & Catalog Pages

[ANT-868-PW-QW-xxx](#)

English