

# ANT-2.4-PW-QW-UFL ✓ ACTIVE

TE Internal #: L9000101-01

Terminal/Duck Antenna, Single Band, Bluetooth / ISM / Zigbee,  
External Mount, Stud/Screw/Lug Mount, MHF / U.FL / UMCC,  
Omnidirectional, Single Port

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## Antennas



Wireless Application: **Bluetooth, ISM, Zigbee**

Mounting Location: **External**

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

Frequency Category: **2400 – 2500**

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 $\Omega$

### Signal Characteristics

Gain (Max)	1.6 dB
Frequency Band	2400 – 2485 MHz
Frequency Category	2400 – 2500
Peak Gain	0 < 3 dBi

### Body Features

Product Weight	17.49 g[.61693 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	105 mm[4.13 in]
Product Height	0 mm[0 in]

### Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

### Industry Standards

Wireless Application	Bluetooth, ISM, Zigbee
Primary Application	Bluetooth, ISM, Zigbee

### 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	Low Halogen - Br, Cl, F, I < 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 # 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 #5787686-1  
37 PLUG SP/FMS (RET SL)



TE Part #1011-265-0405  
BKSHL, 4P, BLK, REC,ST,SR,NW6/7.5/8.5/10



TE Part #1-1734592-4  
FPC CONN. 0.5MM PITCH B/C, 14P



TE Part #5535098-5  
ASSEMBLY,RECEPTACLE,EUROCARD, T



TE Part #9-146282-0  
40 MODII HDR SRST B/A .100CL



TE Part #1571294-2  
SWITCH,TACT,SMT,SEALED,T&R



TE Part #2195835-2  
ISM 868 / 915 MHz ANTENNA



TE Part #L9000032-01  
Antenna 1/2 Wave Swivel 2.4GHz SMA



TE Part #ANT-916-PW-QW-UFL  
Antenna 1/4 Wave Whip 916MHz 1.32 UFL



TE Part #CONMCX001  
MCX Jack 50 Ohm PCB Through Hole

## Documents



### Product Drawings

[Antenna 1/2 Wave Whip 2.4GHz 1.32 UFL](#)

English

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### CAD Files

Customer View Model

[ENG\\_CVM\\_CVM\\_L9000101-01\\_C.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_L9000101-01\\_C.3d\\_igs.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_L9000101-01\\_C.3d\\_stp.zip](#)

English

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### Datasheets & Catalog Pages

[ANT-2.4-PW-QW-xxx](#)

English