

ANT-2.4-PML-UFL

✓ ACTIVE

TE Internal #: L9000097-01

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 Ω

Signal Characteristics

Gain (Max)	2.4 dB
Frequency Band	2400 – 2485 MHz
Frequency Category	2400 – 2500
Peak Gain	0 < 3 dBi

Mechanical Attachment

Polarization	Linear
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Mounting Type	Stud/Screw/Lug Mount
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Dimensions

Cable Length	.3 m[1 ft]
Product Width	12.1 mm[.48 in]
Product Length	150.3 mm[5.92 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 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 (.31% 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	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 #206438-1 CPC RECPT ASSEMBLY SIZE 23-57	TE Part #1658537-1 SOCKET CONT DUPL PLT STRIP HD-	TE Part #66507-3 20 DF PIN	TE Part #328730 SPLICE,N CE 22-10
			
TE Part #1-1734099-0 Champ 050 series,plug assembly	TE Part #1532188-2 M83513/02-BC, MCKS-C2-B-15SS	TE Part #ADP-SMAF-MMXM SMA Jack to MMCX Plug	TE Part #ADP-SMAF-SMAF-B-G SMA Jack to SMA Jack Bulkhead
			
TE Part #L9000032-01 Antenna 1/2 Wave Swivel 2.4GHz SMA	TE Part #CF6163-000 HRHF-175FR-10/226		

Documents



Product Drawings

Antenna 1/4 Wave Whip 2.4GHz RG178 UFL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_L9000097-01_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L9000097-01_A.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_L9000097-01_A.2d_dxf.zip

English

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Datasheets & Catalog Pages

ANT-2.4-PML-ccc

English