

ANT-8/9-FPC-UFL-100 ✓ ACTIVE

TE Internal #: L9000128-01

Flexible PCB (FPC) Antenna, Dual Band, LPWAN / LoRaWAN,
Internal/Embedded Mount, Adhesive, UMCC / MHF / MHF1,
Omnidirectional, Single Port

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Antennas



Wireless Application: **LoRaWAN, LPWAN, Wi-Fi**

Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive**

Antenna Termination: **MHF, MHF1, U.FL, UMCC**

Antenna Type: **Flexible PCB (FPC)**

Features

Product Type Features

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

Configuration Features

Antenna Style	Patch
Mounting Location	Internal/Embedded
Antenna Type	Flexible PCB (FPC)
Band Type	Dual Band
Port Configuration	Single Port

Electrical Characteristics

VSWR (Max)	<2.1:1
Impedance	50 Ω

Signal Characteristics

Frequency Band	862 – 876 MHz
Nominal Frequency Range	698 – 2700
Peak Gain	< 0 dBi

Body Features

Product Weight	.6 g [.02116 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Adhesive

Dimensions

Cable Length	.1 m[.33 ft]
Product Width	15 mm[.59 in]
Product Length	39 mm[1.54 in]
Product Height	.2 mm[.01 in]

Operation/Application

Directionality	Omnidirectional
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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
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 2023 (235) Not Yet Reviewed
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 #1-2199119-5
M.2 0.5PITCH 3.2H KEY M 15U" AU



TE Part #1-1630186-9
Power Resistors: Aluminum Housed, HSA



TE Part #2195835-1
ISM 868 / 915 MHz ANTENNA



TE Part #L9000035-01
Antenna 2.4 FPC LH 45x7 100 MHF4



TE Part #ANT-915-VHETH
Antenna Vert Coil 915MHz Base THM



TE Part #ANT-LTE-RPC-UFL
Antenna LTE RPC PCB Adhes 100mm UFL



TE Part #L9000204-01
Antenna WiFi6/6E FPC LH 45x7 100 MHF4



TE Part #L9000222-01
Antenna WiFi6/6E FPC SH 25x20 100 MHF4



TE Part #CSS-SGAF-050-STTN
Cable SMA Jack Semi-Rigid 0.047" 50 Cut

Documents

Product Drawings

[Antenna FPC 868/915MHz 1.13 100 UFL](#)

English



Datasheets & Catalog Pages

[Sub-6 Cellular LTE-5G NR Frequency Band Guide](#)

English

[Flexible Embedded LPWA 868/915 MHz Antenna](#)

English

[Virtual Antenna](#)

English

[Microslatch Ground Plane Optimization](#)

English

[RF 101 Information for the RF Challenged](#)

English