ANT-8/9-FPC-UFL-100 ✔ ACTIVE

TE Internal #: L9000128-01

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

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Antennas



Communication Protocol: **LoRaWAN, LPWAN, Wi-Fi**

Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive Mount**

Frequency Category: **698 – 2700**

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

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2.1:1

Signal Characteristics

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

Body Features

Product Weight	.6 g[.02116 oz]

Mechanical Attachment

Polarization	Linear
Mounting Type	Adhesive Mount

Dimensions

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

Operation/Application

Directionality	Omnidirectional

Industry Standards

Communication Protocol	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	未针对中国 RoHS 符合性进行审核 Not reviewed for China RoHS compliance
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JAN 2025 (247) 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	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

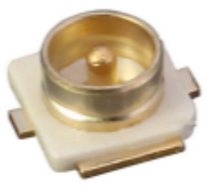
This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight 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.

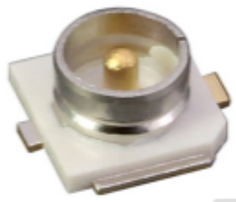
Compatible Parts



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



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

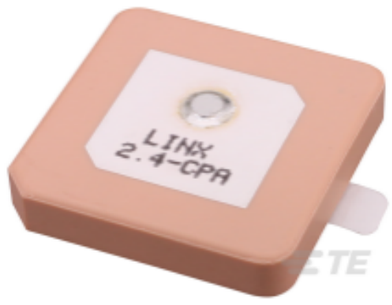


TE Part # CONUFL001-SMD
Conn UFL MHF Straight PCB Mount Jack

Customers Also Bought



TE Part #CON292001-1
2.92 mm Jack 50 Ohm PCB Surface Mount



TE Part #L9000015-01
Antenna CER Patch 20mm Sq 2.45GHz Adh



TE Part #BSA078F05580100000
923 PLUG, SPEEDTEC



TE Part #ANT-868-PW-QW-UFL
Antenna 1/4 Wave Whip 868MHz 1.32 UFL



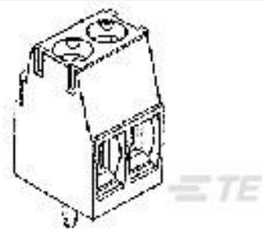
TE Part #ANT-915-CPA
Antenna CER Patch 40mm Sq 915MHz Adh THM



TE Part #L9000107-01
Antenna 2.45GHz WRT Monopole U.FL



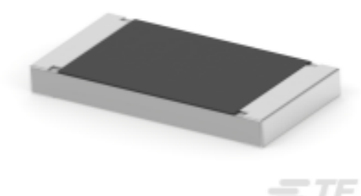
TE Part #32588
TERMINAL,PIDG SPD 12-10 8



TE Part #284391-3
TERMI-BLOK PCB SIDE ENTRY STAC



TE Part #3-2176349-3
CRGCQ 2512 4K7 1%



TE Part #4-2176350-1
CRGCQ 2512 4M7 5%

Documents

Product Drawings

Antenna FPC 868/915MHz 1.13 100 UFL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_L9000128-01_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_L9000128-01_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L9000128-01_A.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

Datasheets & Catalog Pages

Flexible Embedded LPWA 868/915 MHz Antenna

English