

ANT-5GLFPC1-UFL-100

✓ ACTIVE

TE Internal #: L9000126-01  
Flexible PCB (FPC) Antenna, Multi Band, 5G / Cellular / LTE, Internal /Embedded Mount, Adhesive Mount, MHF1 / U.FL / UMCC, Omnidirectional, Single Port  
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Antennas



Antenna Type: **Flexible PCB (FPC)**  
Band Type: **Multi Band**  
Primary Application: **5G, Cellular, LTE**  
Wireless Application: **5G, Cat-M/NB-IoT, Cellular, LTE**  
Mounting Location: **Internal/Embedded**

Features

Product Type Features

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

Configuration Features

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

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<6.8:1

Signal Characteristics

Frequency Band	698 – 803 MHz
Frequency Category	698 – 4200
Peak Gain	3 < 6 dBi

Body Features

Product Weight	.6 g[.02116 oz]
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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
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Industry Standards

Primary Application	5G, Cellular, LTE
Wireless Application	5G, Cat-M/NB-IoT, Cellular, LTE

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: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (1.34% in Component Part) <b>Article Safe Usage Statements:</b> 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-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 # CONUFL001-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 #ANT-433-USP410  
Antenna uSP PCB RPC 410 433MHz SMT T&R

TE Part #1676223-2  
RN 0805 1K15 0.1% 10PPM 1KRL

TE Part #5677602006  
RNF-3000-24/8-0-STK

TE Part #L9000152-01  
Antenna uSP PCB RPC 410 868MHz SMT T&R

TE Part #2-1879134-7  
RN 0603 18K2 0.1% 10PPM 1K RL

TE Part #1-2106003-2  
Connector, SMT-IDC, 2 POS, 20 AWG

TE Part #3-1879224-7  
CPF 0603 7K15 0.1% 25PPM 1K RL

TE Part #EH2296-000  
DWFR-8/2-0-STK

TE Part #8-2176404-3  
3550 10R 5%

TE Part #GA10K3A5421  
DISC-+- 0.2°C 0°C 70°C



Documents

Product Drawings

Antenna FPC Sub-6 LTE/5G 1.13 100 UFL

English

CAD Files

Customer View Model

ENG\_CVM\_CVM\_L9000126-01\_A.3d\_igs.zip

English

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_L9000126-01\_A.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_L9000126-01\_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 Sub-6 Cellular LTE/5G Antenna

English