

ANT-5GLFPC1-UFL-100 ✓ ACTIVE

TE Internal #: L9000126-01

Flexible PCB (FPC) Antenna, Multi Band, 5G / Cellular / LTE, Internal /Embedded Mount, Adhesive, MHF1 / U.FL / UMCC, Omnidirectional, Single Port

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Antennas



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

Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive**

Frequency Category: **698 – 4200**

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 | Multi Band |
| Port Configuration | Single Port |

Electrical Characteristics

| | |
|------------|-------------|
| VSWR (Max) | <6.8:1 |
| Impedance | 50 Ω |

Signal Characteristics

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

Body Features

| | |
|----------------|------------------|
| Product Weight | .6 g [.02116 oz] |
|----------------|------------------|



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 |
|----------------|-----------------|

Industry Standards

| | |
|----------------------|---------------------------------|
| Wireless Application | 5G, Cat-M/NB-IoT, Cellular, LTE |
| Primary Application | 5G, 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: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) SVHC > Threshold: Pb (1.34% 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

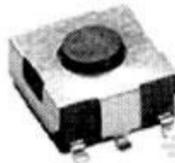


TE Part # CONUFL001-SMD
Conn UFL MHF Straight PCB Mount Jack



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

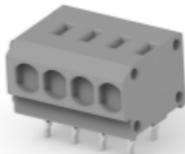
Customers Also Bought



TE Part #1-1437565-9
FSM1LPTR=NEW P/N



TE Part #1-770968-1
04P MINI UMN L R/A HDR ASSY LF



TE Part #2834090-1
5.08MM SIDE ENTRY MSC 2P_GY



TE Part #1-968946-1
TAB 2.8x0.8 CONTACT CF SRC Sn



TE Part #L9000127-01
Antenna Adh 5G Cell 1.13 100 UFL



TE Part #ANT-B20-CW-QW-SMA
Antenna 1/4 Wave Whip LTE B20 SMA



TE Part #ANT-LPC-FPC-100
Antenna Vert 5G LTE FPC 100



TE Part #LICAL-DEC-MS001
DECODER MS IC CHIP RC PROTOCOL T&R



TE Part #OTX-433-HH-KF5-MS
Remote MS 433MHz OOK AM 5Bttn KF TX EU



Documents

Product Drawings

[Antenna Adh LPWA 698-960MHz 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