

ANT-5GMFPC1-UFL-100

✓ ACTIVE

TE Internal #: L9000127-01

Flexible PCB (FPC) Antenna, Multi Band, 5G / Cellular / LTE, Internal /Embedded Mount, Adhesive, MHF / MHF1 / U.FL, 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 – 6000

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)	<3.2:1
Impedance	50 Ω

Signal Characteristics

Gain (Max)	3 dB
Frequency Band	2300 – 2400 MHz
Frequency Category	698 – 6000
Peak Gain	> 6 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	12 mm[.47 in]
Product Length	42 mm[1.65 in]
Product Height	.2 mm[.01 in]

Operation/Application

Directionality	Omnidirectional
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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
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 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
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

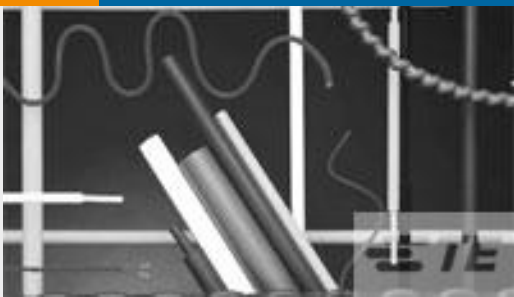
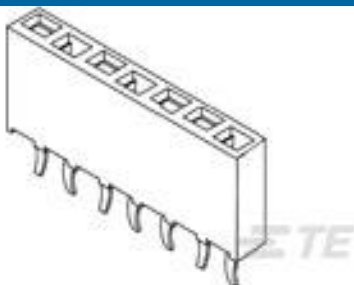


articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling 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
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Customers Also Bought

 TE Part #6609016-5 3ED1=F7072 S0	 TE Part #5650868-5 ASSY,RECEPTACLE,EUROCARD,TYPE R/2,LEAD-F	 TE Part #1676480-2 CRG0402 1% 100R	 TE Part #8-1879494-1 CRGH0603 5% 2K2 0.2W
 TE Part #6823354001 CGPT-6/2-0-SP	 TE Part #NB07544001 HTAT-16/4-0-SP	 TE Part #1740280-7 HV100 CONNECTOR 90DEG 6,2MM	 TE Part #ADP-SMAF-SMBM-G SMA Jack to SMB Plug
 TE Part #ANT-W63WS5-SMA Antenna Blade Wifi6/6E Swivel SMA	 TE Part #CONSMA001 SMA Jack 50 Ohm PCB Through Hole		

Documents

Product Drawings



Antenna Adh 5G Cell 1.13 100 UFL

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_L9000127-01_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_L9000127-01_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_L9000127-01_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 Midband 5G Antenna

English