

ANT-5GLFPC1-UFL-100 ✓ ACTIVE

TE Internal #: L9000126-01

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

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

Antenna Type: Flexible PCB (FPC)

Features

Product Type Features

Antenna Termination	MHF, MHF1, U.FL, UMCC
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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
Nominal Frequency Range	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

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	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 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 #2834090-1
5.08MM SIDE ENTRY MSC 2P_GY



TE Part #2361492-1
PCB Antenna,cable,MHF,698-2700MHz



TE Part #2367286-2
LTE ANTENNA COTS FPC ASSEMBLY 50mm Cable



TE Part #53125-1
TERMINAL,SOLIS SPR SPD 16-14



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



TE Part #ANT-LPC-FPC-150
Antenna Vert 5G LTE FPC 150



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



TE Part #L9000230-01
Antenna WiFi6/6E FPC 20x110 100 UFL



TE Part #L9000203-01
Antenna WiFi6 2.4/5/6 GHz FPC UFL 100



TE Part #2302650-1
SBP200375WE1-T200-ID

Documents

Product Drawings

[Antenna Adh LPWA 698-960MHz 1.13 100 UFL](#)

English



Datasheets & Catalog Pages

[VHETH Antenna Series Ground Plane Optimization](#)

English

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

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[Considerations for Operation within the 260-470MHz Band](#)

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[Understanding Antenna Specifications and Operation](#)

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[Antennas Design, Application and Performance](#)

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[Antenna Color Codes](#)

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[The FCC Road Part 15 From Concept to Approval](#)

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

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[Flexible Embedded Sub-6 Cellular LTE/5G Antenna](#)

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[Virtual Antenna](#)

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[Microslatch Ground Plane Optimization](#)

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