

ANT-5GMFPC1-UFL-100

✓ ACTIVE

TE Internal #: L9000127-01

Flexible PCB (FPC) Antenna, Multi Band, LTE / Cellular / 5G, Internal /Embedded Mount, Adhesive, MHF1 / MHF / 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 Product Type	Antenna
Antenna Termination	MHF, MHF1, U.FL, UMCC

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
Nominal Frequency Range	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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) 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


Customers Also Bought



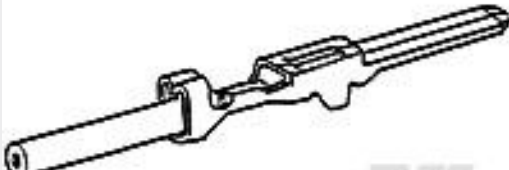
TE Part #1658613-2
25 POS HDF PLUG, MS, LEAD FREE



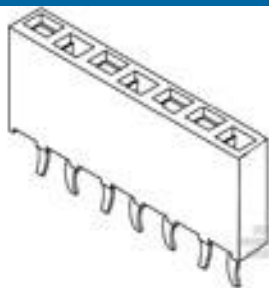
TE Part #5650868-5
ASSY,RECEPTACLE,EUROCARD,TYPE R/2,LEAD-F




TE Part #3-2176343-7
CRGCQ 1206 10K 1%




TE Part #175030-1
070 TAB CONTACT L.P 20-16



TE Part #1740280-7
HV100 CONNECTOR 90DEG 6,2MM



TE Part #ANT-W63WS5-SMA
Antenna Blade Wifi6/6E Swivel SMA



TE Part #2-1393216-6
V23057-B3006-A101

Documents

Product Drawings

Antenna Adh 5G Cell 1.13 100 UFL

English

Datasheets & Catalog Pages

Sub-6 Cellular LTE-5G NR Frequency Band Guide

English

Flexible Embedded Midband 5G Antenna

English



Virtual Antenna

English

Microsplatch Ground Plane Optimization

English

RF 101 Information for the RF Challenged

English