

ANT-5GW-FPC-LH50UF ✓ ACTIVE



TE Internal #: ANT-5GW-FPC-LH50UF
Flexible PCB (FPC) Antenna, Wide Band, 5G / Cellular / LTE,
Internal/Embedded Mount, Adhesive, MHF / 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: **617 – 6000**

Antenna Type: **Flexible PCB (FPC)**

Features

Product Type Features

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

Configuration Features

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

Signal Characteristics

Frequency Category	617 – 6000
Peak Gain	> 6 dBi

Mechanical Attachment

Mounting Type	Adhesive
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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 Bromine/Chlorine - Br and Cl < 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

 <p>TE Part # CONMHF1-SMD-G-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>	 <p>TE Part # CONMHF1-SMD-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>	 <p>TE Part # CONUFL001-SMD Conn UFL MHF Straight PCB Mount Jack</p>	 <p>TE Part # CONUFL001-SMD-T U.FL/MHF1 Jack 50 Ohm PCB Surface Mount</p>
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Customers Also Bought



TE Part #2-5177986-6
0.8FH,P07H.5,140,08/Sn,TR,SC



TE Part #2195835-3
ISM 868 / 915 MHz ANTENNA



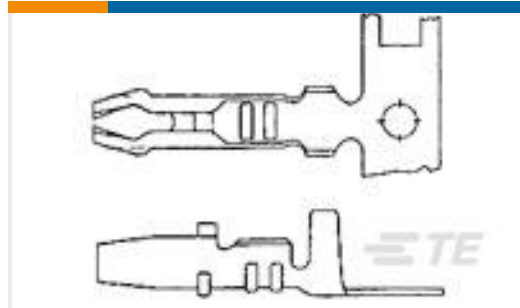
TE Part #2238106-1
250 POS LOCK REC FLAG 12-10



TE Part #1879838-1
3W SM M/OX 5% 680R REELED



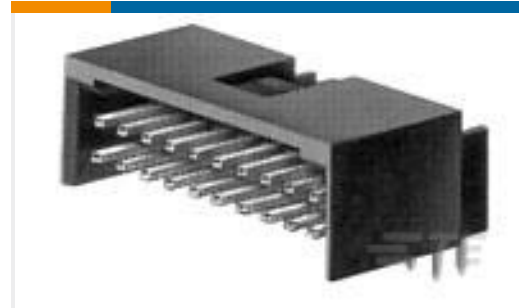
TE Part #EL8207-000
HX-CT-50M-9.5-OUT-4



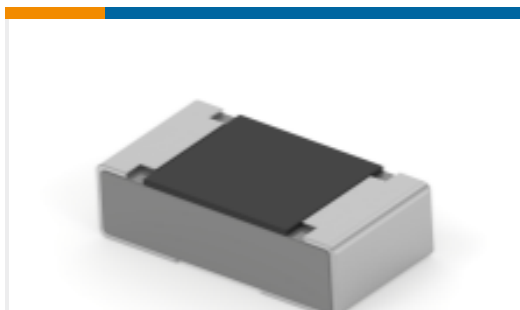
TE Part #170072-1
AMP-IN 24-20 AWG



TE Part #1-1318300-2
3.96 EP HDR ASSY 2P NAT/TUBE



TE Part #5-103164-4
12 MODII HDR DRRA 3/4SHRD LF



TE Part #4-2176479-0
RA73F 1J 130R 0.1% 5K RL



TE Part #CONMCX002-SMD
MCX Jack 50 Ohm PCB Surface Mount

Documents

Product Drawings

[Antenna 5GW FPC LH 45x7 50 UFL](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_ANT-5GW-FPC-LH50UF_B.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-5GW-FPC-LH50UF_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-5GW-FPC-LH50UF_B.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 Cellular Sub-6 5G Antennas

English