

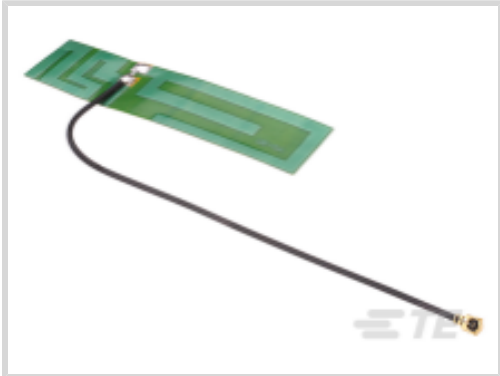
ANT-LPC-FPC-50

✓ ACTIVE

TE Internal #: ANT-LPC-FPC-50
Flexible PCB (FPC) Antenna, Wide Band, 5G / Cellular / LTE,
Internal/Embedded Mount, Adhesive Mount, MHF / U.FL / UMCC,
Omnidirectional, Single Port
[View on TE.com >](#)



Antennas



Communication Protocol: 5G, Cat-M/NB-IoT, Cellular, LTE
Mounting Location: Internal/Embedded
Mounting Type: Adhesive Mount
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

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

Signal Characteristics

Frequency Category	698 – 4200
Peak Gain	3 < 6 dBi

Mechanical Attachment

Mounting Type	Adhesive Mount
---------------	----------------

Operation/Application

Directionality	Omnidirectional
----------------	-----------------

Industry Standards

Communication Protocol	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	未针对中国 RoHS 符合性进行审核 Not reviewed for China RoHS compliance
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: Not Yet Reviewed SVHC > Threshold: Pb (4% in Component) 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 < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not reviewed for solder process capability

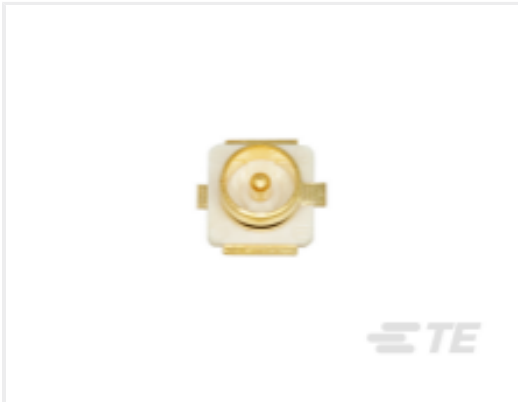
Product Compliance Disclaimer

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.

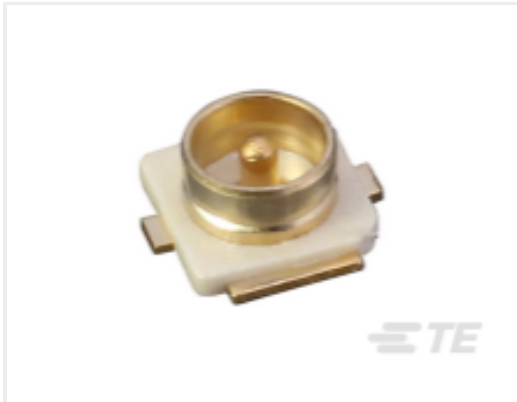
Compatible Parts



TE Part # CONMHF1-SMD-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount



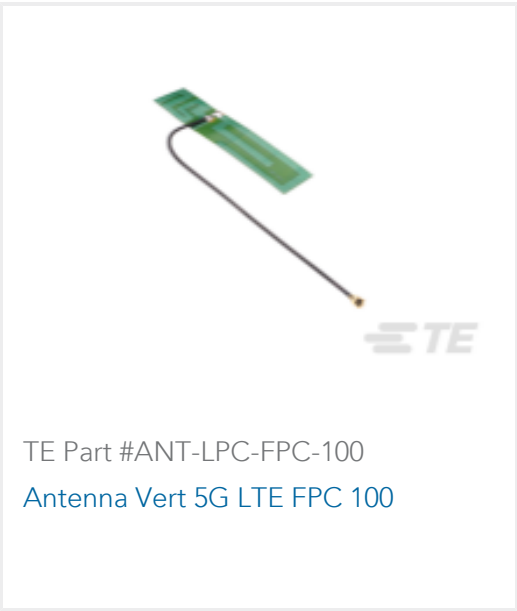
TE Part # CONUFL001-SMD-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount



TE Part # CONMHF1-SMD-G-T
U.FL/MHF1 Jack 50 Ohm PCB Surface Mount



Customers Also Bought



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 #T4171010005-001
M12,REAR MOUNTING,MALE,A,5P,0.2 M WIRE



TE Part #1-215570-2
MICRO-MATCH PBC.12P



TE Part #342184-1
12-10 F.E.P.G. RING TERMINAL



TE Part #440055-5
2.0MM,HDR,5POS,R/A



TE Part #440129-5
2.0MM,HSG,5POS



TE Part #1623096-1
CRG0805 1% 100R



TE Part #1623181-1
CRG0805 1% 2K7



TE Part #2108792-6
FPC Ant, MHF 4L, 50mm, Wi-Fi 7

Documents

Product Drawings

Antenna Vert 5G LTE FPC 50

English

CAD Files

Customer View Model

ENG_CVM_CVM_ANT-LPC-FPC-50_A.2d_dxf.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_ANT-LPC-FPC-50_A.3d_stp.zip

English

Customer View Model

ENG_CVM_CVM_ANT-LPC-FPC-50_A.3d_igs.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.



Datasheets & Catalog Pages

LTE/LPWA/GNSS Flexible Embedded Dipole Antenna

English