

ANT-5GW-FPC-V100UF

✓ ACTIVE

TE Internal #: ANT-5GW-FPC-V100UF
Flexible PCB (FPC) Antenna, Wide Band, 5G / Cellular / LTE,
Internal/Embedded Mount, Adhesive Mount, MHF / MHF1 /
UMCC, Omnidirectional, Single Port
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Antennas



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

Directionality	Omnidirectional
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Industry Standards

Communication Protocol	5G, Cat-M/NB-IoT, Cellular, LTE
Primary Application	5G, Cellular, LTE



Product Compliance

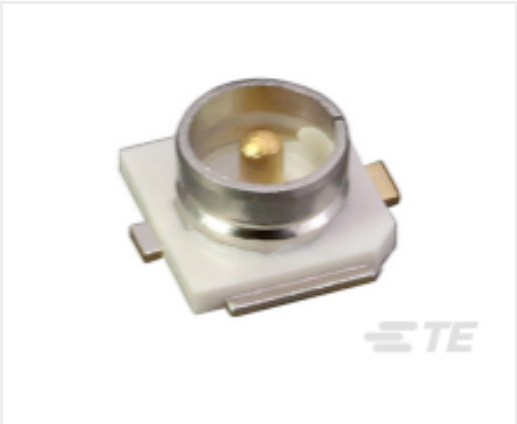
For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) 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



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

ANT-5GW-FPC-V100UF

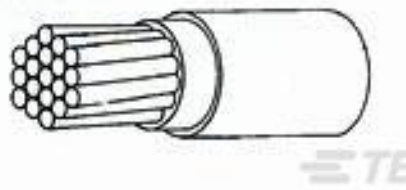
Flexible PCB (FPC) Antenna, Wide Band, 5G / Cellular / LTE, Internal/Embedded Mount, Adhesive Mount, MHF / MHF1 / UMCC, Omnidirectional, Single Port



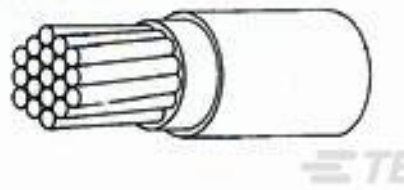
TE Part #DRC22-40PB
40P RECP ASM



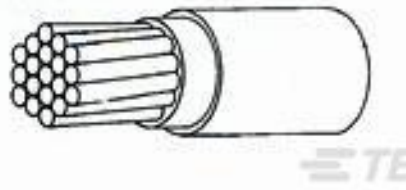
TE Part #CSE-SGAM-305-SGAM
SMA to SMA 305mm RG316



TE Part #282042-014
44A0111-24-2



TE Part #282020-018
44A0111-20-0



TE Part #282040-015
44A0111-24-0



TE Part #L000836-07
FPC ANT, VDP, 50mm, MHF4L, 617-5000MHz



TE Part #5-2176091-3
RP 2A 0.25W 205R 0.1% 25PPM 1K RL



TE Part #5145154-1
CONNECTOR, 60 DUAL POSITION, .



TE Part #5227079-5
COMM BNC PLUG



TE Part #L9000341-01
Antenna Horz FPC 2.4GHz 120x20 100 UFL

Documents

Product Drawings

Antenna 5GW FPC LV 20x120 100 UFL

English

CAD Files

Customer View Model

ENG_CVM_CVM_ANT-5GW-FPC-V100UF_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_ANT-5GW-FPC-V100UF_A.3d_stp.zip

English

3D PDF

3D

Customer View Model

ENG_CVM_CVM_ANT-5GW-FPC-V100UF_A.2d_dxf.zip

English

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Datasheets & Catalog Pages



Flexible Embedded Cellular Sub-6 5G Antennas

English