

# ANT-W63-FPC2-UFL-100 ✓ ACTIVE

TE Internal #: L9000203-01

Flexible PCB (FPC) Antenna, Triple Band, Wi-Fi, Internal /Embedded Mount, Adhesive, N-type, Omnidirectional, Single Port, Gain > 6 dBi

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## Antennas



Wireless Application: **Wi-Fi**

Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive**

Antenna Termination: **N-type**

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

## Features

### Product Type Features

|                      |         |
|----------------------|---------|
| Antenna Product Type | Antenna |
| Antenna Termination  | N-type  |

### Configuration Features

|                    |                    |
|--------------------|--------------------|
| Antenna Style      | Patch              |
| Mounting Location  | Internal/Embedded  |
| Antenna Type       | Flexible PCB (FPC) |
| Band Type          | Triple Band        |
| Port Configuration | Single Port        |

### Electrical Characteristics

|            |             |
|------------|-------------|
| VSWR (Max) | <2.4:1      |
| Impedance  | 50 $\Omega$ |

### Signal Characteristics

|                         |                 |
|-------------------------|-----------------|
| Gain (Max)              | 3.2 dB          |
| Frequency Band          | 2400 – 2485 MHz |
| Nominal Frequency Range | 2400 – 7125     |
| Peak Gain               | > 6 dBi         |

### Body Features

|                |                  |
|----------------|------------------|
| Product Weight | .6 g [.02116 oz] |
|----------------|------------------|



### 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 |
|----------------|-----------------|

### Industry Standards

|                      |       |
|----------------------|-------|
| Wireless Application | Wi-Fi |
| Primary Application  | Wi-Fi |

### 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)<br>Candidate List Declared Against: JUNE 2023 (235)<br>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



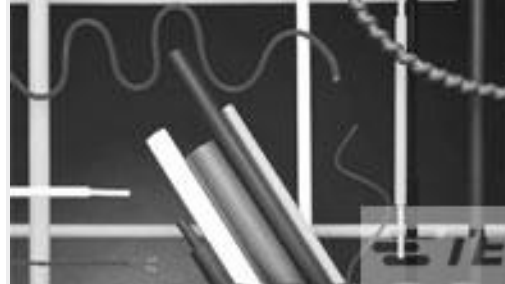
TE Part #321885  
TERM, STRAT, SOLIS, HT R, 22-16, #5



TE Part #47907-1  
DAHT PIDG 24-20 ASSY



TE Part #218014-010  
55A0811-20-9



TE Part #5069872029  
CGPT-19/9.5-0-STK



TE Part #T4131012121-000  
M12,REAR MOUNT,FEMALE,A,12P, SOLDER WIRE



TE Part #4589973001  
99M0111-16-2



TE Part #L9000126-01  
Antenna Adh LPWA 698-960MHz 1.13 100 UFL



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



TE Part #L9000234-01  
Antenna WIFI6 2.4/5/6 GHz RPC UFL 100



TE Part #CD31333001  
CLFH179

## Documents

### Product Drawings



## [Antenna WiFi6 2.4/5/6 GHz FPC UFL 100](#)

English

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### [Datasheets & Catalog Pages](#)

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

English

#### [Flexible Embedded WiFi 6 Antenna](#)

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#### [Virtual Antenna](#)

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#### [Microslatch Ground Plane Optimization](#)

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#### [VHETH Antenna Series Ground Plane Optimization](#)

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

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

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