# L000941-05 ✔ ACTIVE

TE Internal #: L000941-05

Flexible PCB (FPC) Antenna, Multi Band, 5G, Internal/Embedded Mount, Adhesive Mount, MHF/MHF1/U.FL/UMCC, Omnidirectional, Single Port

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Antennas



Communication Protocol: **5G**

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

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

### Electrical Characteristics

| | |
|---|---|
| Impedance | 50 Ω |
| Antenna Operation | Passive |
| VSWR (Max) | <2.8:1 |

### Signal Characteristics

| | |
|---|---|
| Frequency Band | 617 – 894 MHz, 1717 – 5000 MHz |

| | |
|---|---|
| Gain (Max) | 4.9 dB |
| Frequency Category | 617 – 6000 |
| Peak Gain | 3 < 6 dBi |

### Body Features

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|---|---|
| Antenna Weight | 2 g |

### Mechanical Attachment

| | |
|---|---|
| Polarization | Linear |
| Mounting Type | Adhesive Mount |

### Dimensions

| | |
|---|---|
| Product Width | 15.5 mm[.61 in] |
| Product Length | 110 mm[4.331 in] |
| Product Height | .15 mm[.006 in] |
| Cable Length | .25 m[.82 ft] |
| Cable Insulation Diameter (Max) | 1.13 mm[.044 in] |

### Usage Conditions

| | |
|---|---|
| Cable Type | Coaxial |

### Operation/Application

| | |
|---|---|
| Wireless Standard | Cellular |
| Directionality | Omnidirectional |

### Industry Standards

| | |
|---|---|
| Communication Protocol | 5G |
| Primary Application | 5G |

### Product Availability

| | |
|---|---|
| Applicable Region | North America |

### Packaging Features

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|---|---|
| Packaging Method | Bag & Box |

### Other

| | |
|---|---|
| Precision Level | Standard |

## Product Compliance

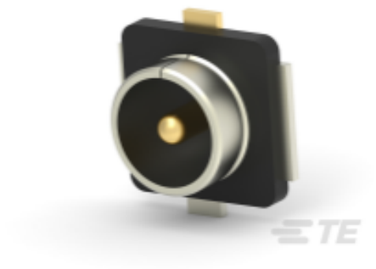
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Out of Scope |
| 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)<br>Candidate List Declared Against: JUNE 2025 (250)<br>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 # 2337019-1
UMCC Micro-Coax receptacle, Gen 1

## Documents

### Product Drawings

FPC ANT, VDP, 250mm, MHF1, 617-5000MHz

English

### CAD Files

### Customer View Model

ENG_CVM_CVM_L000941-05_1.2d_dxf.zip

English

3D PDF

3D

### Customer View Model

ENG_CVM_CVM_L000941-05_1.3d_igs.zip

English

### Customer View Model

ENG_CVM_CVM_L000941-05_1.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

## Datasheets & Catalog Pages

### Data sheet for L000941

English

## Product Specifications

### Product Specification

English