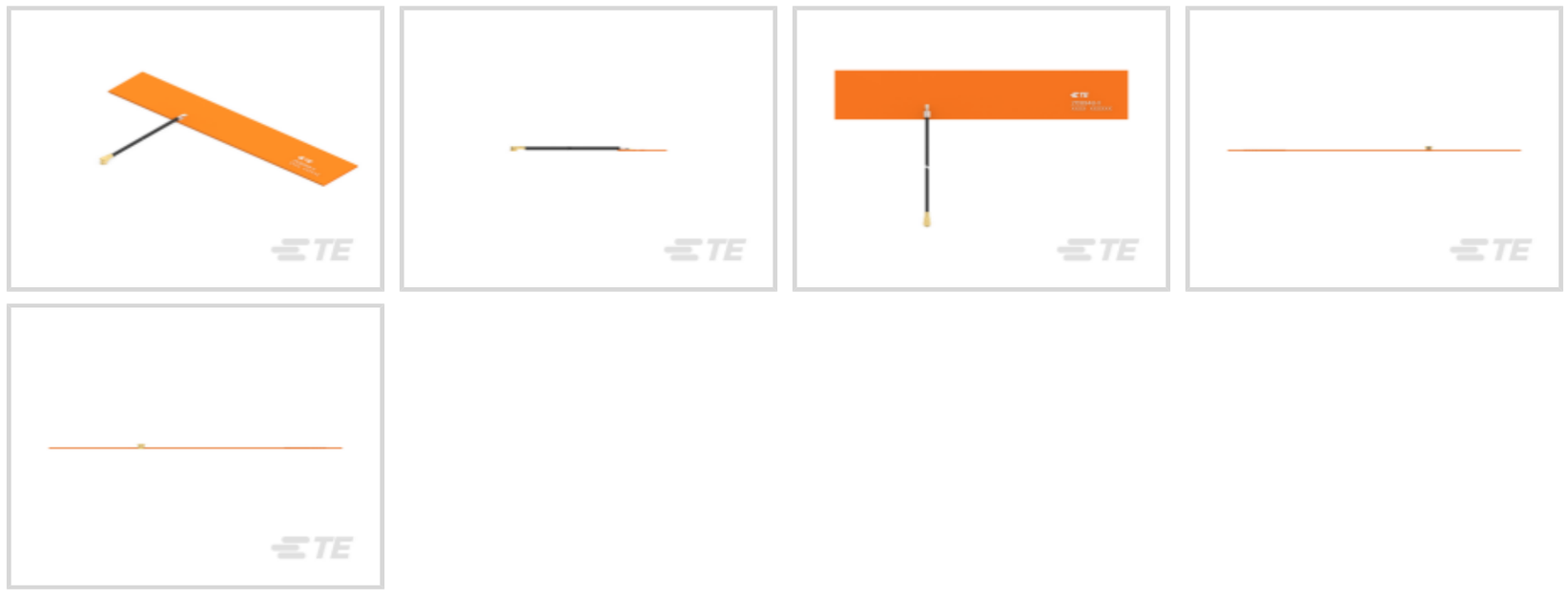
# 2108948-7 ✔ ACTIVE

TE Internal #: 2108948-7

PCB Antenna, Multi Band, 5G / Cat-M/NB-IoT / Cellular, Internal /Embedded Mount, Adhesive Mount, MHF4, Omnidirectional, Single Port

View on TE.com >

Antennas



Communication Protocol: **5G, Cat-M/NB-IoT, Cellular, GNSS, Wi-Fi**

Mounting Location: **Internal/Embedded**

Mounting Type: **Adhesive Mount**

Frequency Category: **617 – 7125**

Antenna Type: **PCB**

## Features

### Product Type Features

| | |
|---|---|
| Antenna Termination | MHF4 |
| Antenna Product Type | Antenna |

### Configuration Features

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

### Electrical Characteristics

| | |
|---|---|
| Impedance | 50 Ω |
| Antenna Operation | Passive |
| VSWR (Max) | <3.9:1 |

### Signal Characteristics

| | |
|---|---|
| Frequency Band | 690 – 710 MHz, 1850 – 4000 MHz, 5000 – 7125 MHz |

| | |
|---|---|
| Gain (Max) | 3.9 dB |
| Frequency Category | 617 – 7125 |
| Peak Gain | 3 < 6 dBi |

### Body Features

| | |
|---|---|
| Antenna Weight | 1.2 g[.042 oz] |

### Mechanical Attachment

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

### Dimensions

| | |
|---|---|
| Product Width | 119.3 mm[4.69 in] |
| Product Length | 20 mm[.78 in] |
| Product Height | .55 mm[.004 in] |
| Cable Length | .15 m[.49 ft] |
| Cable Insulation Diameter (Max) | .9 mm[.035 in] |

### Operation/Application

| | |
|---|---|
| Wireless Standard | 802.11 a/b/g/n/ac/ad/ax, Bluetooth, ZigBee & Wi-Fi, LTE, UMTS, US Dual, EU Triband & WCDMA |
| Directionality | Omnidirectional |

### Industry Standards

| | |
|---|---|
| Communication Protocol | 5G, Cat-M/NB-IoT, Cellular, GNSS, Wi-Fi |
| Primary Application | 5G, Cat-M/NB-IoT, Cellular |

### Product Availability

| | |
|---|---|
| Applicable Region | Global |

### Packaging Features

| | |
|---|---|
| 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 | Compliant |
| 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 | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources. |
| Solder Process Capability | Not reviewed for solder process capability |

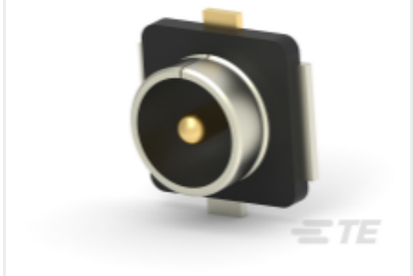
Product Compliance Disclaimer

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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

## Compatible Parts



TE Part # 2334884-1
UMCC Micro-Coax receptacle, Gen 4



TE Part # 2337019-1
UMCC Micro-Coax receptacle, Gen 1

## Documents

### Product Drawings

PCB Ant, MHF4L, 150mm, 617-7125MHz

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2108948-7_A.2d_dxf.zip

English

## Customer View Model

ENG_CVM_CVM_2108948-7_A.3d_igs.zip

English

## Customer View Model

ENG_CVM_CVM_2108948-7_A.3d_stp.zip

English

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

## Datasheets & Catalog Pages

2108948-X AntennasApplication Notes

English

PCB WITH CABLED ANT, MHF/MHF4L, 617-7125MHz

English

## Product Specifications

Product Specification

English