

TE Internal #: FTRA6971M6PWN-001  
Dome/Puck Antenna, Wide Band, 5G, Remote Mount, Stud/Screw  
/Lug Mount, N-type, Omnidirectional, Single Port, 3 < 6 dBi Peak  
Gain

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#### Antennas



Antenna Type: **Dome/Puck**

Band Type: **Wide Band**

Primary Application: **5G**

Wireless Application: **5G**

Mounting Location: **Remote**

#### Features

##### Product Type Features

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

##### Configuration Features

|                    |             |
|--------------------|-------------|
| Antenna Style      | Low Profile |
| Antenna Type       | Dome/Puck   |
| Band Type          | Wide Band   |
| Mounting Location  | Remote      |
| Port Configuration | Single Port |

##### Electrical Characteristics

|                   |                         |
|-------------------|-------------------------|
| Impedance         | 50 Ω                    |
| Antenna Operation | Passive                 |
| VSWR (Max)        | < 2.0:1, <2.5:1, <3.5:1 |

##### Signal Characteristics

|                |   |
|----------------|---|
| Frequency Band | 1427 – 1695 MHz, 4400 – 6000 MHz, 6000 – 6500 MHz, 6500 – 7125 MHz, 3300 – 4200 |
|----------------|---|

|                    |                                     |
|--------------------|-------------------------------------|
| Frequency Category | MHz, 698 – 960 MHz, 1695 – 2700 MHz |
| Peak Gain          | 617 – 7125                          |
|                    | 3 < 6 dBi                           |

#### Body Features

|                |                   |
|----------------|-------------------|
| Product Weight | 280.9 g[9.908 oz] |
|----------------|-------------------|

#### Mechanical Attachment

|               |                      |
|---------------|----------------------|
| Polarization  | Linear               |
| Mounting Type | Stud/Screw/Lug Mount |

#### Dimensions

|                  |                   |
|------------------|-------------------|
| Product Diameter | 47.3 mm[1.86 in]  |
| Product Height   | 96.5 mm[3.799 in] |

#### Operation/Application

|                     |                 |
|---------------------|-----------------|
| Antenna Environment | Outdoor         |
| Wireless Standard   | Cellular        |
| Directionality      | Omnidirectional |

#### Industry Standards

|                      |    |
|----------------------|----|
| Primary Application  | 5G |
| Wireless Application | 5G |

#### Product Availability

|                   |          |
|-------------------|----------|
| Applicable Region | Americas |
|-------------------|----------|

#### Packaging Features

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

#### Other

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

#### Product Compliance

For compliance documentation, visit the product page on [TE.com](https://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 | Restricted Materials Above Threshold        |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2025 (247) |

Candidate List Declared Against: JUNE

2022 (224)

SVHC &gt; Threshold:

Pb (3.09% in Component)

Pb (3.09% in Component)

Pb (2.24% 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

Not Low Halogen - contains Br or Cl &gt; 900 ppm.

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 # FTRA6971M5PW-001  
OMNI,Ph,PMT,698-7125MHz



TE Part # C58LL-SMAM-2438-NM  
SMA to N Type 2438mm RG58



TE Part # TRA6927M3NWN-001  
OMNI,Ph,NMO,698/1710MHz WHT,,  
100W,NGP

**Customers Also Bought**

TE Part # TRAB24-49003P  
OMNI,Ph,2400/4900MHz BK,3 dBi,  
60W



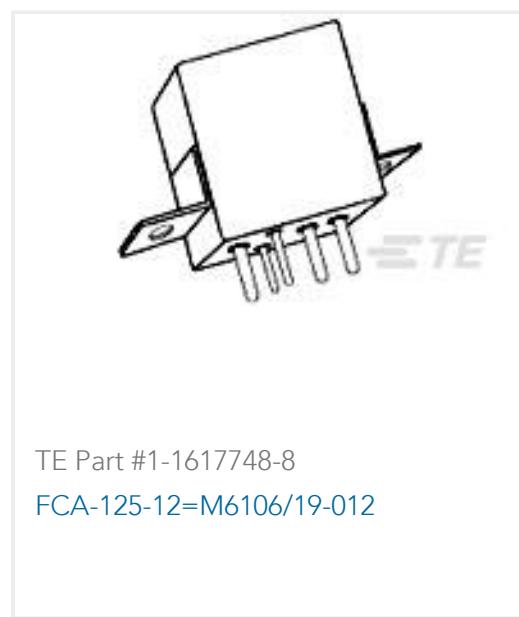
TE Part # CSI-SGFB-100-UFFR  
SMA to U.FL/MHF1 100mm 1.13 OD



TE Part # ANT-5GWW6-SMA  
Antenna Dipole Blade 5G/LTE Swivel  
SMA



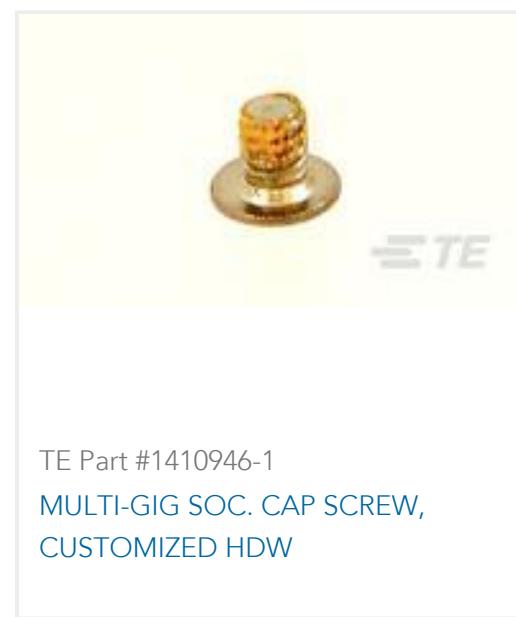
TE Part # FTRA6971M5PW-001  
OMNI,Ph,PMT,698-7125MHz



TE Part #1-1617748-8  
FCA-125-12=M6106/19-012



TE Part #1658694-2  
AMP-LATCH UNV HDR,26 POSN,VERT



TE Part #1410946-1  
MULTI-GIG SOC. CAP SCREW,  
CUSTOMIZED HDW



TE Part #3-1617753-9  
FCA-325-AY4



TE Part #2267080-1  
TMS6T1B1M1QE



TE Part #E1250402BG  
E1250402BG=M6106/19-012

## Documents

### CAD Files

#### Customer View Model

[ENG\\_CVM\\_CVM\\_FTRA6971M6PWN-001\\_A.2d\\_dxf.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_FTRA6971M6PWN-001\\_A.3d\\_stp.zip](#)

English

#### Customer View Model

[ENG\\_CVM\\_CVM\\_FTRA6971M6PWN-001\\_A.3d\\_igs.zip](#)

English

### 3D PDF

3D

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

### Datasheets & Catalog Pages

#### 5G PHANTOM ANTENNAS

English

#### ANT DS FTRA 5G Phantom NGP

English

### Agency Approvals

#### UK Declaration of Conformity

English