

FTRA6971M6PBN-001 ✓ ACTIVE

TE Internal #: FTRA6971M6PBN-001

Dome/Puck Antenna, Wideband, 5G, Remote Mount, Stud/Screw
/Lug Mount, N-type, Omnidirectional, Single Port, Gain 3 < 6 dBi

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Antennas



Wireless Application: **5G**

Mounting Location: **Remote**

Mounting Type: **Stud/Screw/Lug Mount**

Antenna Termination: **N-type**

Antenna Type: **Dome/Puck**

Features

Product Type Features

Antenna Termination	N-type
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Configuration Features

Antenna Style	Low Profile
Mounting Location	Remote
Antenna Type	Dome/Puck
Band Type	Wideband
Port Configuration	Single Port

Electrical Characteristics

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

Signal Characteristics

Gain (Max)	-0.4 dB, 1.2 dB, 2.7 dB, 5.7 dB, 6.6 dB, 7.4 dB, 8.15 dB
Frequency Band	698 – 960 MHz, 1427 – 1695 MHz, 1695 – 2700 MHz, 3300 – 4200 MHz, 4400 – 6000



MHz, 6000 – 6500 MHz, 6500 – 7125 MHz

Nominal Frequency Range	617 – 7125
Peak Gain	3 < 6 dBi

Body Features

Product Weight	280.9 g[9.908 oz]
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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

Wireless Application	5G
Primary Application	5G

Product Availability

Applicable Region	Americas
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Packaging Features

Packaging Method	Bag & Box
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Other

Precision Level	Standard
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Product Compliance

[For compliance documentation, visit the product page on 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: JUNE 2023 (235)



Candidate List Declared Against: JUNE 2022 (224)

SVHC > 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 > 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 # FTRA6971M5PB-001
OMNI,Ph,PMT,698-7125MHz



TE Part # TRA6927M3NBN-001
OMNI,Ph,NMO,698/1710MHz BK,,
100W,NGP



TE Part # C58LL-SMAM-2438-NM
Cable SMA Male to N Male RG58

Documents

Product Drawings

[OMNI,PH,PMT,698-7125MHz](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_FTRA6971M6PBN-001_A.2d_dxf.zip](#)

English



Customer View Model

[ENG_CVM_CVM_FTRA6971M6PBN-001_A.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_CVM_FTRA6971M6PBN-001_A.3d_igs.zip](#)

English

[3D PDF](#)

[3D](#)

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Datasheets & Catalog Pages

[ANT DS FTRA 5G Phantom NGP](#)

English

Agency Approvals

[UK Declaration of Conformity](#)

English