

ANT-5GW-SPNF1

✓ ACTIVE

TE Internal #: ANT-5GW-SPNF1
Dome/Puck Antenna, Wide Band, 5G / Cellular / LTE, External
Mount, Stud/Screw/Lug Mount, N-type, Omnidirectional, Single
Port, > 6 dBi Peak Gain
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Antennas



Communication Protocol: 5G, Cat-M/NB-IoT, Cellular, LTE
Mounting Location: External
Mounting Type: Stud/Screw/Lug Mount
Frequency Category: 617 – 6000
Antenna Type: Dome/Puck

Features

Product Type Features

Antenna Termination	N-type
Antenna Product Type	Antenna

Configuration Features

Antenna Style	Dome
Mounting Location	External
Antenna Type	Dome/Puck
Band Type	Wide Band
Port Configuration	Single Port

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<7:1

Signal Characteristics

Frequency Band	617 – 698 MHz
Gain (Max)	1.3 dB
Frequency Category	617 – 6000
Peak Gain	> 6 dBi

Body Features

Antenna Weight	63.9 g[2.254 oz]
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Mechanical Attachment

Polarization	Linear
Mounting Type	Stud/Screw/Lug Mount

Dimensions

Product Width	40.2 mm[1.58 in]
Product Length	70.8 mm[2.79 in]
Product Height	0 mm[0 in]

Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

Industry Standards

Communication Protocol	5G, Cat-M/NB-IoT, Cellular, LTE
Primary Application	5G, Cellular, LTE

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	未针对中国 RoHS 符合性进行审核 Not reviewed for China RoHS compliance
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) SVHC > Threshold: Pb (3.34% in Component Part) 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 # CONN007-4-W
N Type Plug 50 Ohm Cable Crimp



TE Part # CONN007-3-W
N Type Plug 50 Ohm Cable Crimp



TE Part # CONN002-W
N Type Jack 50 Ohm Panel Mount



TE Part # CONN001-W
N Type Jack 50 Ohm PCB Through Hole



TE Part # CONN007-1-W
N Type Plug 50 Ohm Cable Crimp



TE Part # CONN003-W
N Type Jack 50 Ohm Panel Mount



TE Part # CONN007-2-W
N Type Plug 50 Ohm Cable Crimp



TE Part # CONN008-W
N Type Plug 50 Ohm Panel Mount Crimp

Customers Also Bought



TE Part #403289-000
CWT-3



TE Part #ADP-NF-NF-B-W
N Type Jack to N Type Jack Bulkhead



TE Part #CSI-RGFE-200-UFFR
RP-SMA to U.FL/MHF1 200mm 1.13 OD



TE Part #3-641190-6
06P MTA100 CONN ASSY RED LF OD



TE Part #1825255-1
MHS12204=SPDT SL SW VERT AG



TE Part #2420749-1
FSA Cord 1.6mm x 1m L



TE Part #2466267-1
BNC JACK RA PCB MNT TIN 2 GHZ 50 OHM



TE Part #L9000142-01
Antenna 868/915 LPWA Dome IP67 N Jack

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TE Part #5053242179
[RNF-100-3/4-BK-STK](#)



TE Part #1558665-4
[T9GS5L14-15](#)

Documents

Product Drawings

[Antenna 5G WB Cell Dome IP67 N Jack](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_ANT-5GW-SPNF1_A.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_ANT-5GW-SPNF1_A.3d_igs.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_ANT-5GW-SPNF1_A.3d_stp.zip](#)

English

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

Datasheets & Catalog Pages

[Panel Mount Cellular Sub-6 5G Antenna](#)

English