

# ANT-8/9-SPNF2 ✓ ACTIVE

TE Internal #: L9000142-01

Dome/Puck Antenna, Dual Band, LPWAN / LoRaWAN, External Mount, Panel, N-type, Omnidirectional, Single Port, Gain 3 < 6 dBi

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## Antennas



Wireless Application: **LoRaWAN, LPWAN, Wi-Fi**

Mounting Location: **External**

Mounting Type: **Panel**

Antenna Termination: **N-type**

Antenna Type: **Dome/Puck**

## Features

### Product Type Features

Antenna Product Type	Antenna
Antenna Termination	N-type

### Configuration Features

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

### Electrical Characteristics

VSWR (Max)	<1.7:1
Impedance	50 Ω

### Signal Characteristics

Gain (Max)	3.3 dB
Frequency Band	868 MHz
Nominal Frequency Range	698 – 2700
Peak Gain	3 < 6 dBi

### Body Features

Product Weight	118 g[4.16225 oz]
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### Mechanical Attachment

Polarization	Linear
Mounting Type	Panel

### Dimensions

Product Width	42 mm[1.65 in]
Product Length	83.1 mm[3.27 in]
Product Height	0 mm[0 in]

### Operation/Application

Antenna Environment	Outdoor
Directionality	Omnidirectional

### Industry Standards

Wireless Application	LoRaWAN, LPWAN, Wi-Fi
Primary Application	LoRaWAN, LPWAN

### 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 2023 (235) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 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 # CONN001-W  
N Type Jack 50 Ohm PCB Through Hole



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



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



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



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



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

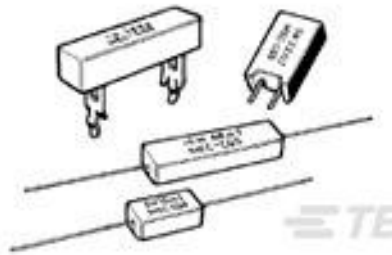


TE Part # CONN007-4-W  
N Type Plug 50 Ohm Cable Crimp



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

## Customers Also Bought



TE Part #2-1623795-8  
SQP5 10R 5% WIRE



TE Part #406732-2  
MJ,10MM,8P,SHLD,NO HSG POST,SN



TE Part #5103309-5  
A/L LOW PRO HDR 20P VERT BLACK



TE Part #5555154-1  
MJ,R/A,LPF,6P/6C,SHLD,PNL,TRAY



TE Part #7-1437653-4  
6PCV-15-006=6PCV ASSEMBLY



TE Part #1-1478979-0  
SMA STR PCB SKT GSS



TE Part #1SNK705910R0000  
EK2.5



TE Part #7-2176369-0  
RQ 0603 210R 0.1% 10PPM 5K RL



## Documents

### Product Drawings

[Antenna 868/915 LPWA Dome IP67 N Jack](#)

English

### Datasheets & Catalog Pages

[Sub-6 Cellular LTE-5G NR Frequency Band Guide](#)

English

[Panel Mount 868/915 MHz LPWA Antenna](#)

English

[Virtual Antenna](#)

English

[Microslatch Ground Plane Optimization](#)

English