

# ANT-8/9-SPS1-2 × OBSOLETE

TE Internal #: L9000144-01

TE Internal Description: Antenna LPWA 868/915 Puck RG174 2M

SMA

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## Antennas



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

Mounting Location: **External**

Mounting Type: **Panel**

Antenna Termination: **SMA**

Antenna Type: **Dome/Puck**

## Features

### Product Type Features

Antenna Product Type	Antenna
Antenna Termination	SMA

### Configuration Features

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

### Electrical Characteristics

VSWR (Max)	<1.6:1
Impedance	50 $\Omega$

### Signal Characteristics

Gain (Max)	5.1 dB
Frequency Band	868 MHz
Nominal Frequency Range	698 – 2700
Peak Gain	3 < 6 dBi

### Body Features

Product Weight	63.4 g[2.23633 oz]
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### Mechanical Attachment

Polarization	Linear
Mounting Type	Panel

### Dimensions

Cable Length	2 m[6.56 ft]
Product Width	54.7 mm[2.15 in]
Product Length	23.3 mm[.92 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) Not Yet Reviewed
Halogen Content	Not Yet Reviewed for halogen content
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.

## Documents

### Product Drawings

[Antenna LPWA 868/915 Puck RG174 2M SMA](#)

English

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### Datasheets & Catalog Pages

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

English

[Virtual Antenna](#)

English

[Microsplat Ground Plane Optimization](#)

English

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

English

[RF 101 Information for the RF Challenged](#)

English