

ANT-916-MHW-RPS-L

✓ ACTIVE



TE Internal #: ANT-916-MHW-RPS-L

Module Antenna, Single Band, LPWAN / LoRaWAN, Remote

Mount, Adhesive, RP-SMA, Omnidirectional, Single Port, Gain 3 < 6 dBi

[View on TE.com >](#)

Antennas



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

Mounting Location: **Remote**

Mounting Type: **Adhesive**

Frequency Category: **902 – 930**

Antenna Type: **Module**

Features

Product Type Features

|                      |         |
|----------------------|---------|
| Antenna Termination  | RP-SMA  |
| Antenna Product Type | Antenna |

Configuration Features

|                    |             |
|--------------------|-------------|
| Antenna Style      | Whip        |
| Mounting Location  | Remote      |
| Antenna Type       | Module      |
| Band Type          | Single Band |
| Port Configuration | Single Port |

Electrical Characteristics

|            |        |
|------------|--------|
| VSWR (Max) | <1.9:1 |
| Impedance  | 50 Ω   |

Signal Characteristics

|                    |           |
|--------------------|-----------|
| Gain (Max)         | 5.4 dB    |
| Frequency Band     | 915 MHz   |
| Frequency Category | 902 – 930 |
| Peak Gain          | 3 < 6 dBi |

Body Features

|                |                    |
|----------------|--------------------|
| Product Weight | 76.5 g[2.69841 oz] |
|----------------|--------------------|



Mechanical Attachment

|               |          |
|---------------|----------|
| Polarization  | Linear   |
| Mounting Type | Adhesive |

Dimensions

|                |                 |
|----------------|-----------------|
| Cable Length   | 4.6 m[15.09 ft] |
| Product Width  | 15.5 mm[.61 in] |
| Product Length | 138 mm[5.43 in] |
| Product Height | 9.7 mm[.38 in]  |

Operation/Application

|                |                 |
|----------------|-----------------|
| 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 2024 (241)<br>Candidate List Declared Against: JUNE 2024 (241)<br>SVHC > Threshold:<br>Pb (4% in Component Part)<br><b>Article Safe Usage Statements:</b><br>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                               | BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.   |
| 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 # CONREV SMA001-G  
RP-SMA Jack 50 Ohm PCB Through Hole

TE Part # CONREV SMA002-SMD-G  
RP-SMA RA Jack 50 Ohm PCB Surface Mount

TE Part # L9000251-01  
RP-SMA Jack 50 Ohm .062 PCB Edge Mount

TE Part # L9000254-01  
RP-SMA Jack 50 Ohm .031 PCB Edge Mount

### Customers Also Bought

TE Part #1757820-7  
AMPLIMITE,ASY,RCPT,STD,109,ZN,2,CT

TE Part #1757820-1  
AMPLIMITE,ASY,RCPT,STD,109,ZN,1

TE Part #320634  
TERMINAL,PIDG R 12-10 6

TE Part #0413-215-1605  
SEALING PLUG, SIZE 16, KEYING, WHT

TE Part #YDTS20W17-06PNV001  
RECP ASSY

TE Part #185652-000  
ST18-3-55-22-90

TE Part #450705-000  
S02-03-R

TE Part #L9000011-01  
Antenna 1/2 Wave Whip Swivel 1.4 GHz SMA

### Documents

#### Product Drawings

Antenna 916MHz Dipole MHW Long RPS

English

#### CAD Files

Customer View Model

ENG\_CVM\_CVM\_ANT-916-MHW-RPS-L\_A1.2d\_dxf.zip

English



Customer View Model

[ENG\\_CVM\\_CVM\\_ANT-916-MHW-RPS-L\\_A1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_ANT-916-MHW-RPS-L\\_A1.3d\\_stp.zip](#)

English

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

Datasheets & Catalog Pages

[ANT-916-MHW-xxx-x](#)

English