

2J 868-915 MHz LPWAN Adhesive Antenna, 863 to 928 MHz

SKU: ANT-2J-00012

MPN: 2J5515P

Description

The 2J 868-915 MHz LPWAN Adhesive Antenna (SKU: ANT-2J-00012) is a compact and efficient solution designed for reliable performance in the 863 to 928 MHz frequency range. Developed by 2J, this adhesive patch antenna is crafted from durable ASA plastic and measures 71 x 25 x 7 mm, making it ideal for space-constrained environments. It operates effectively in extreme temperatures from -40 °C to 85 °C, ensuring versatility across various applications.

This antenna is well-suited for automotive, M2M, base station, and embedded system applications, offering seamless integration with a 1x SMA Male RF connection via a 3000 mm RG-174 cable. It features a linear polarisation with a 50 Ω impedance, supporting up to 25 W of input power. The antenna demonstrates a peak gain of 3.3 dBi and 2.8 dBi within its respective frequency ranges, maintaining a 360° azimuth beamwidth and a consistent radiated efficiency of 32%.

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RF Specification

Cable 1: 868/915 MHz


2J is a worldwide supplier of antenna solutions for Automotive, Marine, Telematic, Automation and M2M markets. 2J utilise a plethora of modern engineering tools, from network analysers and anechoic chambers, to simulation software and 3D printers. These tools help reduce design phases, and enable us to react to customers' needs promptly and efficiently.

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|------------------|---------|---------------|--------|
| Start Frequency: | 863 MHz | Polarisation: | Linear |
|------------------|---------|---------------|--------|

| | | | |
|-----------------|---------|------------------|----|
| Stop Frequency: | 928 MHz | Input Impedance: | 50 |
|-----------------|---------|------------------|----|

| | |
|-------------------|------|
| Max. Input Power: | 25 W |
|-------------------|------|

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|---------|
| 1 | SMA Male | Straight | RG-174 | 3000 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Return Loss | VSWR | Azimuth | Avg. Gain | Efficiency |
|-------------|------------|-----------|-------------|---------|---------|-----------|------------|
| 863 MHz | 870 MHz | 3.3 dBi | > 8.6 dB | < 2.2:1 | 360° | -5 dBi | 32% |
| 902 MHz | 928 MHz | 2.8 dBi | > 10.8 dB | < 1.8:1 | 360° | -5 dBi | 32% |

Physical Specification

| | | | |
|-----------------------------|----------------|----------------------------|-------------|
| Subtype: | Adhesive Patch | Dimensions: | 71 x 25 x 7 |
| Input Ports: | 1 | Materials: | ASA Plastic |
| MIMO: | 1x1 SISO | Mounting: | Adhesive |
| Min. Operating Temperature: | -40 °C | Compliance/Certifications: | RoHS |
| Max. Operating Temperature: | 85 °C | | |

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