

# 2J 915 MHz LPWAN Narrowband Dipole Antenna, 902 to 928 MHz

SKU: ANT-2J-00032

MPN: 2J2115B-915-B05H

## Description

The 2J 915 MHz LPWAN Narrowband Dipole Antenna, model 2J2115B-915-B05H, is designed for optimal performance within the 902 to 928 MHz frequency range, making it ideal for ISM applications. Constructed with durable ASA plastic, brass, and stainless steel, it boasts an IP67 ingress protection rating, ensuring reliable operation in harsh environments. The antenna's linear polarisation and 50  $\Omega$  impedance support up to 25 W input power, making it suitable for diverse applications such as automotive, M2M, and base stations.

Featuring a peak gain of 3.1 dBi, a VSWR of less than 1.9:1, and 71% radiated efficiency, this single-input antenna delivers robust performance. Its 360° azimuth beamwidth ensures comprehensive coverage, while the average gain of -1.8 dBi highlights its stable performance. The antenna is equipped with an SMA male interface and a 3000 mm RG-58 cable, facilitating easy integration into existing systems.

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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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# RF Specification

## 915 MHz ISM Antenna

|                   |         |                  |        |
|-------------------|---------|------------------|--------|
| Start Frequency:  | 902 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-58        | 3000 mm |

### Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Return Loss | VSWR    | Azimuth | Avg. Gain | Efficiency |
|-------------|------------|-----------|-------------|---------|---------|-----------|------------|
| 902 MHz     | 928 MHz    | 3.1 dBi   | > 10.9 dB   | < 1.9:1 | 360°    | -1.8 dBi  | 71%        |

# Physical Specification

|                             |          |                            |   |
|-----------------------------|----------|----------------------------|---|
| Subtype:                    | Dipole   | Dimensions:                | 325 x 36 x 155 (220 x 16)                 |
| Input Ports:                | 1        | Ingress Protection:        | IP67                                      |
| MIMO:                       | 1x1 SISO | Materials:                 | ASA Plastic, Brass, Stainless Steel (303) |
| Min. Operating Temperature: | -40 °C   | Mounting:                  | Wall / Vertical Surface                   |
| Max. Operating Temperature: | 85 °C    | Compliance/Certifications: | RoHS                                      |

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