

# 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

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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