

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

SKU: ANT-2J-00029

MPN: 2JF0415P

## Description

The 2J 868-915 MHz LPWAN Flexible Embedded Adhesive Antenna (SKU: ANT-2J-00029) is a versatile PCB/surface mount antenna designed for robust performance across the 863 to 928 MHz frequency range. With its compact dimensions of 25 x 70 x 0.2 mm, this antenna is an ideal solution for space-constrained applications. Its construction allows for operation in extreme temperatures from -40 °C to 85 °C, making it suitable for diverse environments.

This antenna features a single input port with a U.FL female interface connected via a 100 mm mini-coax cable, ensuring reliable connectivity. It supports up to 25 W of input power and maintains a 50 Ω impedance, offering linear polarisation for enhanced signal integrity. The antenna performs efficiently with a peak gain of 2.7 dBi and 3.6 dBi across different frequency ranges, achieving radiated efficiency of up to 77%.

Engineered by 2J, a leader in antenna solutions, this product is RoHS compliant and...

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# RF Specification

## Cable 1: 868/915 MHz ISM

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	U.FL Female	Straight	1.37 mm Mini-Coax	100 mm

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
863 MHz	870 MHz	2.7 dBi	> 8 dB	< 2.3:1	360°	-2.3 dBi	58%
902 MHz	928 MHz	3.6 dBi	> 21 dB	< 1.2:1	360°	-1.1 dBi	77%

# Physical Specification

Subtype:	PCB / Surface Mount	Dimensions:	25 x 70 x 0.2
Input Ports:	1	Materials:	Plastic
MIMO:	1x1 SISO	Mounting:	Adhesive
Min. Operating Temperature:	-40 °C	Compliance/Certifications:	RoHS
Max. Operating Temperature:	85 °C		

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