Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

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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2J

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.

Over the past decade, 2J has established ...

RF Specification

Cable 1: 868/915 MHz ISM

Start Frequency
863 MHz
Stop Frequency
928 MHz
Max. Input Power
25 W
Polarisation
Linear
Input Impedance
50 Ω
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
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions
25 x 70 x 0.2
Materials
Plastic
Mounting
Adhesive
Compliance/Certifications
RoHS