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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%.

2J, a Slovakian brand, is renowned...

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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

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

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