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2J Dual-Band WiFi Adhesive Antenna, 2410 to 5925 MHz

SKU
ANT-2J-00011
MPN
2J5502P

Description

The 2J Dual-Band WiFi Adhesive Antenna (SKU: ANT-2J-00011) is a high-performance solution designed for versatile connectivity across automotive, marine, telematics, automation, and M2M applications. Operating within the 2410 to 5925 MHz frequency range, this antenna ensures reliable dual-band WiFi connectivity. It features an adhesive patch design for easy installation and is constructed from durable ABS plastic, allowing it to withstand temperatures from -40 °C to 85 °C.

The antenna offers a single RF connection via an RP-SMA Male interface, supported by a 300 mm L-100 cable. Its linear polarisation and 50 Ω impedance make it suitable for a range of demanding environments. In the 2.4 GHz band, it achieves a peak gain of 3.4 dBi and a VSWR of less than 1.3:1, while in the 5 GHz band, it offers a peak gain of 2.6 dBi with a VSWR of less than 1.9:1. The antenna's 360° azimuth beamwidth ensures comprehensive coverage, with radiated...

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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: 2.4/5.0 GHz ISM

Start Frequency
2410 MHz
Stop Frequency
5925 MHz
Max. Input Power
25 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	RP-SMA Male	Straight	L-100	3000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
2410 MHz	2490 MHz	3.4 dBi	> 18.1 dB	< 1.31:1	360°	-2.5 dBi	57%
4920 MHz	5925 MHz	2.6 dBi	> 11.2 dB	< 1.91:1	360°	-4.7 dBi	34%

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
ABS Plastic
Mounting
Adhesive
Compliance/Certifications
RoHS

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