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

SKU
ANT-2J-00044
MPN
SI303100991

Description

The 2J Dual-Band WiFi Adhesive Antenna (SKU: ANT-2J-00044) offers reliable performance across 2410 to 5925 MHz, making it ideal for a wide range of wireless applications. Designed as an adhesive patch antenna, it is compact, measuring 71 x 25 x 7 mm, and constructed from durable ABS plastic. This antenna supports a 1x1 SISO configuration, featuring a TNC male connector and a 2m cable, ensuring seamless integration into various systems.

Operating efficiently in temperatures from -40 °C to 85 °C, this antenna is RoHS compliant, emphasizing its environmental safety. It features a 50 Ω impedance and can handle up to 25 W of input power, with linear polarisation for consistent signal quality. The antenna's dual-band capability provides distinct performance metrics: in the 2.4 GHz band, it achieves a peak gain of 3.4 dBi and 57% radiated efficiency; in the 5 GHz band, it offers a peak gain of 2.6 dBi with 34% efficiency.

2J, a trusted brand...

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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	Avg. Gain	Efficiency

2410 MHz	2490 MHz	3.4 dBi	> -18.1 dB	< 1.3:1	-2.5 dBi	57%
4920 MHz	5925 MHz	2.6 dBi	> -11.2 dB	< 1.9:1	-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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