

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.

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RF Specification

Cable 1: 2.4/5.0 GHz ISM

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

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

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