

# 2J Dual-Band WiFi Adhesive Antenna, 2410 to 5925 MHz, TNC Male, 3m

SKU: ANT-2J-00037

MPN: 2J5502P-300LL100-C118NYST CU022737

## Description

The 2J Dual-Band WiFi Adhesive Antenna (ANT-2J-00037) is designed for seamless connectivity across 2.4 GHz and 5.0 GHz frequency bands, making it ideal for automotive, M2M, base station, and embedded applications. With a compact size of 71 x 25 x 7 mm, this adhesive patch antenna is fabricated from durable ABS plastic, ensuring reliability in harsh environments with an operating temperature range of -40 °C to 85 °C.

Engineered for optimal RF performance, the antenna features a 1x1 SISO configuration with a 50 Ω impedance and supports up to 25 W input power. It offers a peak gain of 3.4 dBi in the 2410-2490 MHz band and 2.6 dBi in the 4920-5925 MHz band. Its linear polarisation and RP-SMA Male interface, connected via a 3m cable, ensure robust signal transmission.

2J, a leader in antenna solutions, utilises state-of-the-art engineering tools to deliver high-quality products tailored to specific customer requirements. The company's...

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## RF Specification

### 2.4/5.0 GHz ISM Antenna

Start Frequency: **2410 MHz**

Stop Frequency: **5925 MHz**

Max. Input Power: **25 W**

2J is a worldwide supplier of antenna solutions for Automotive, Marine, Telematic, Automation and M2M markets. 2J utilises 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.

Polarisation: **Linear**

Input Impedance: **50**

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RF Connectors

Ports	RF Interface	Cable Series	Length
1	RP-SMA Male	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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