

Page



Powertec Wireless Technology  
ABN: 42 082 948 463  
PO Box 1034, Ashmore City  
Queensland, Australia, 4214  
sales@powertec.com.au  
1300 769 378

## **2J Dual-Band WiFi LP-Stud Antenna, 2410 to 5925 MHz**

SKU  
ANT-2J-00015  
MPN  
2J6602B

### **Description**

The 2J Dual-Band WiFi LP-Stud Antenna (SKU: ANT-2J-00015) is designed for robust performance across a wide frequency range of 2410 to 5925 MHz, suitable for applications in automotive, telematics, marine, and M2M markets. Crafted from durable ASA plastic and featuring an IP67 rating, this antenna withstands harsh environmental conditions, operating effectively between -40 °C and 85 °C.

This Fin/Stud/Combo antenna, measuring 77.3 x 15 mm, supports a single input port with an RP-SMA Male interface and a 3000 mm automotive compliant cable. It offers reliable linear polarisation and a 50  $\Omega$  impedance, handling up to 25 W of input power. Its 1x1 SISO configuration ensures consistent RF performance. Within the 2410-2490 MHz band, it achieves a peak gain of 4.9 dBi and a VSWR of less than 1.5:1. In the 4920-5925 MHz range, it maintains a peak gain of 4.5 dBi. Both frequency bands offer a 360° azimuth beamwidth, ensuring uniform coverage.

As a...

[Read More](#)





[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: WiFi

Start Frequency

2410 MHz

Stop Frequency

5925 MHz

Max. Input Power

25 W

Polarisation

[Linear](#)

Input Impedance

50  $\Omega$

RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
-------	--------------	------------	--------------	--------

1	<a href="#">RP-SMA Male</a>	<a href="#">Straight</a>	<a href="#">A-302</a>	3000 mm
---	-----------------------------	--------------------------	-----------------------	---------

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
2410 MHz	2490 MHz	4.9 dBi	> 14.3 dB	< 1.5:1	360°	-3.1 dBi	49%
4920 MHz	5925 MHz	4.5 dBi	> 14.2 dB	< 1.5:1	360°	-5.4 dBi	29%

## Physical Specification

Subtype

[Fin / Stud / Combo](#)

Input Ports

1

MIMO

[1x1 SISO](#)

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

Dimensions

77.3 x 15 (Dia x H)

Ingress Protection

[IP67](#)

Materials

[ASA Plastic](#)

Mounting

[Stud / Bulkhead / Panel](#)

Compliance/Certifications

RoHS

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

