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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 Ω 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...

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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: WiFi

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	A-302	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