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2J Dual-Band WiFi-6E Flexible Embedded Adhesive Antenna, 2410 to 7125 MHz

SKU
ANT-2J-00028
MPN
2JF0102PA

Description

The 2J Dual-Band WiFi-6E Flexible Embedded Adhesive Antenna (SKU: ANT-2J-00028) offers advanced connectivity for a range of applications in automotive, telematics, and M2M markets. Designed by 2J, a leading Slovakian antenna manufacturer, this PCB/Surface Mount antenna provides robust performance across the 2410 MHz to 7125 MHz frequency range, making it ideal for WiFi 6E networks.

With a compact size of 67.5 x 25.0 x 0.2 mm and the ability to operate in temperatures from -40 °C to 85 °C, it is well-suited for diverse environments. The antenna's linear polarisation and 50 Ω impedance ensure optimal signal integrity, supporting up to 25 W of input power. Featuring a single RF connection via a U.FL Female interface with a 100 mm cable, it simplifies integration into various systems.

This antenna excels in providing consistent performance with peak gains of up to 4.7 dBi and radiated efficiency reaching 71% across its operating bands. Its...

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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

WiFi 6E

Start Frequency
2410 MHz
Stop Frequency
7125 MHz
Max. Input Power
25 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	U.FL Female	Straight	1.37 mm Mini-Coax	100 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
2410 MHz	2490 MHz	2 dBi	> 22.1 dB	< 1.21:1	360°	-1.5 dBi	71%
4920 MHz	5925 MHz	4.7 dBi	> 14.6 dB	< 1.51:1	360°	-1.7 dBi	68%
5925 MHz	7125 MHz	3.7 dBi	> 8.8 dB	< 2.21:1	360°	-2.3 dBi	59%

Physical Specification

Subtype
Adhesive Patch
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions
67.5 x 25.0 x 0.2
Materials
Plastic
Mounting
Adhesive
Compliance/Certifications
RoHS

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