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2J UHF 4G-5G WiFi X-Ultraband Embedded Adheisve Antenna, 410 to 5925 MHz

SKU
ANT-2J-00030
MPN
2JP1180P

Description

The 2J UHF 4G-5G WiFi X-Ultraband Embedded Adhesive Antenna (SKU: ANT-2J-00030) is a versatile solution designed for a wide frequency range from 410 to 5925 MHz. Its compact design, featuring dimensions of 155 x 19.5 x 0.9 mm, is constructed from durable fibreglass, supporting applications in harsh environments with a temperature tolerance from -40 °C to 85 °C.

This adhesive patch antenna is ideal for diverse applications in the automotive, marine, telematic, automation, and M2M markets. It supports 1x1 SISO configurations with a single RF connection, making it suitable for embedded systems and base stations. With RoHS compliance, it aligns with environmental standards, ensuring safe and sustainable use.

The antenna features linear polarisation and a 50 Ω impedance, capable of handling up to 25 W of input power. It assures robust connectivity across multiple bands, making it perfect for modern 5GNR and UHF applications. Its 360° azimuth...

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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

5GNR/UHF

Start Frequency
410 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	U.FL Female	Straight	1.37 mm Mini-Coax	180 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
410 MHz	496 MHz	-3.2 dBi	> 5.9 dB	< 3.1:1	360°	-6 dBi	26%
617 MHz	960 MHz	1.6 dBi	> 14.1 dB	< 1.5:1	360°	-2.8 dBi	53%
1427 MHz	2690 MHz	4.2 dBi	> 13.2 dB	< 1.7:1	360°	-2 dBi	64%
3300 MHz	5000 MHz	0.4 dBi	> 9.3 dB	< 2.6:1	360°	-5.7 dBi	32%
5150 MHz	5925 MHz	2.7 dBi	> 9.1 dB	< 2.6:1	360°	-5.5 dBi	31%

Physical Specification

Subtype
Adhesive Patch
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions
155 x 19.5 x 0.9
Materials
Fibreglass (GRP)
Mounting
Adhesive
Compliance/Certifications
RoHS

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