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

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...

Read More

RF Specification

5GNR/UHF

Start Frequency:	410 MHz	Polarisation:	Linear
Stop Frequency:	5925 MHz	Input Impedance:	50 Ω
Max. Input Power:	25 W		

2J

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.

Over the past decade, 2J has established ...

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

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.