

2J I-Bar 4G-5G WiFi Ultraband Adhesive Antenna, 617 to 5925 MHz

SKU: ANT-2J-00010

MPN: 2J5083P

Description

The 2J I-Bar 4G-5G WiFi Ultraband Adhesive Antenna (SKU: ANT-2J-00010) offers robust performance across a wide frequency range of 617 to 5925 MHz. Crafted from durable polycarbonate and ABS plastic, this compact adhesive patch antenna is designed to withstand extreme temperatures from -40 °C to 85 °C, making it suitable for various challenging environments.

With a 1x1 SISO configuration and a linear polarisation, this antenna supports a 50 Ω impedance and handles up to 35 W of input power. Its RF performance covers multiple frequency bands, making it ideal for diverse applications. Whether in automotive, marine, telematics, or M2M markets, this antenna provides reliable connectivity. The antenna features a single SMA Male interface with a straight connector body, connected via a 300 mm L-100 cable, ensuring easy integration into existing systems.

Meeting RoHS compliance standards, the 2J I-Bar antenna is not only high-performing but also...

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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

| | | | |
|-------------------|----------|------------------|--------|
| Start Frequency: | 617 MHz | Polarisation: | Linear |
| Stop Frequency: | 5925 MHz | Input Impedance: | 50 |
| Max. Input Power: | 35 W | | |

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|---------|
| 1 | SMA Male | Straight | L-100 | 3000 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Return Loss | VSWR | Efficiency |
|-------------|------------|-----------|-------------|---------|------------|
| 617 MHz | 960 MHz | 3.2 dBi | > 15.3 dB | < 1.5:1 | 60% |
| 1427 MHz | 2690 MHz | 3.6 dBi | > 12.8 dB | < 1.7:1 | 46% |
| 3300 MHz | 5000 MHz | 1 dBi | > 12.1 dB | < 1.8:1 | 25% |
| 5150 MHz | 5925 MHz | 1.6 dBi | > 15.6 dB | < 1.5:1 | 25% |

Physical Specification

| | | | |
|-----------------------------|----------------|----------------------------|---------------------------------|
| Subtype: | Adhesive Patch | Dimensions: | 116 x 22 x 6.7 |
| Input Ports: | 1 | Materials: | ABS Plastic, Polycarbonate (PC) |
| MIMO: | 1x1 SISO | Mounting: | Adhesive |
| Min. Operating Temperature: | -40 °C | Compliance/Certifications: | RoHS |
| Max. Operating Temperature: | 85 °C | | |

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