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2J 4G-5G 4x4 MIMO Stud Mount Antenna, 617 to 5925 MHz

SKU ANT-2J-00025 MPN 2J7B83BC

Description

The 2J 4G-5G 4x4 MIMO Stud Mount Antenna (SKU: ANT-2J-00025) is a high-performance solution designed for versatile applications, including automotive, M2M, and base station deployments. Operating across a broad frequency range of 617 to 5925 MHz, this antenna supports advanced 4x4 MIMO technology, enhancing data throughput and connection reliability.

Constructed from durable ASA plastic and featuring an IP67 rating, it is built to withstand harsh environmental conditions. The antenna's robust design includes four RF connections, each with SMA male interfaces and L-195 cables, ensuring seamless integration into various systems.

The antenna's linear polarisation and 50 Ω impedance optimise performance, making it suitable for demanding applications. Each of the four internal antenna elements delivers reliable coverage across multiple frequency bands, ensuring consistent connectivity with peak gain and efficiency tailored for comprehensive...

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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: 5GNR

Start Frequency 617 MHz Stop Frequency

5925 MHz

Max. Input Power

35 W

Polarisation

Linear

Input Impedance

50 Ω

RF Connectors

Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight L-195 3000 mm

Frequency Test Data

Start Freq. Stop Freq. Peak Gain Return Loss VSWR Avg. Gain Efficiency

617 MHz	960 MHz	1.3 dBi	> 5.6 dB	< 3.5:1 -5 dBi	32%
1427 MHz	2690 MHz	3.4 dBi	> 11.7 dB	< 1.9:1 -3.9 dBi	41%
3300 MHz	5000 MHz	4.8 dBi	> 15.2 dB	< 1.5:1 -3.8 dBi	42%
5150 MHz	5925 MHz	4 dBi	> 14.2 dB	< 1.6:1 -4.4 dBi	37%

Cable 2: 5GNR

Start Frequency

617 MHz

Stop Frequency

5925 MHz

Max. Input Power

35 W

Polarisation

Linear

Input Impedance

50 Ω

RF Connectors

Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight L-195 3000 mm

Frequency Test Data

Start Freq. Stop Freq. Peak Gain Return Loss VSWR Avg. Gain Efficiency

617 MHz	960 MHz	1.2 dBi	> 6.2 dB	< 3.2:1 -5 dBi	32%
1427 MHz	2690 MHz	3.5 dBi	> 12.5 dB	< 1.9:1 -3.9 dBi	41%
3300 MHz	5000 MHz	4.6 dBi	> 15.1 dB	< 1.5:1 -3.7 dBi	43%
5150 MHz	5925 MHz	3.2 dBi	> 16 dB	< 1.5:1 -4.8 dBi	33%

Cable 3: 5GNR

Start Frequency

617 MHz

Stop Frequency

5925 MHz

Max. Input Power

35 W

Polarisation

Linear

Input Impedance

50 Ω

RF Connectors

Ports RF Interface Body Shape Cable Series Length

1 SMA Male Straight L-195 3000 mm

Frequency Test Data

Start Freq. Stop Freq. Peak Gain Return Loss VSWR Avg. Gain Efficiency

617 MHz 960 MHz 1.3 dBi > 5.6 dB< 3.7:1 -5 dBi 32% 2690 MHz 3.8 dBi > 12.8 dB < 1.8:1 -3.8 dBi 42% 1427 MHz 3300 MHz 5000 MHz 4.5 dBi > 16.7 dB< 1.4:1 -4 dBi 40% 5150 MHz 5925 MHz 4.6 dBi > 12.4 dB < 1.8:1 -4.2 dBi 39%

Cable 4: 5GNR

Start Frequency

617 MHz

Stop Frequency

5925 MHz

Max. Input Power

35 W

Polarisation

<u>Linear</u>

Input Impedance

50 Ω

RF Connectors

Ports RF Interface Body Shape Cable Series Length

1 <u>SMA Male</u> <u>Straight</u> <u>L-195</u> 3000 mm

Frequency Test Data

Start Freq. Stop Freq. Peak Gain Return Loss VSWR Avg. Gain Efficiency

617 MHz	960 MHz	1.7 dBi	> 5.9 dB	< 3.3:1 -5.1 dBi	31%
1427 MHz	2690 MHz	3.4 dBi	> 12.7 dB	< 1.8:1 -3.8 dBi	42%
3300 MHz	5000 MHz	4.6 dBi	> 16.8 dB	< 1.5:1 -3.7 dBi	43%
5150 MHz	5925 MHz	3.9 dBi	> 15.4 dB	< 1.5:1 -4.6 dBi	35%

Physical Specification

Subtype

Fin / Stud / Combo

Input Ports

4

MIMO

4x4 MIMO

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

Dimensions

96 x 130

Ingress Protection

IP67

Materials

ASA Plastic

Mounting

Stud / Bulkhead / Panel

Compliance/Certifications

RoHS

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