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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%
1427 MHz	2690 MHz	3.8 dBi	> 12.8 dB	< 1.8:1	-3.8 dBi	42%
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
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	1.7 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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