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2J 5G Screw Mount Antenna, 2J7A84BGFc, Black, SMA Male, 300cm

SKU
ANT-2J-00043
MPN
SI311102920

Description

The 2J 5G Screw Mount Antenna (2J7A84BGFc), identified by SKU: ANT-2J-00043, is a versatile antenna solution designed for demanding environments. Constructed from durable ASA plastic, it boasts an IP67 rating, ensuring protection against dust and water, and operates reliably within a temperature range of -40 °C to 85 °C. This antenna features five input ports for 4x4 MIMO capabilities, providing robust connectivity across a wide frequency range from 617 MHz to 5925 MHz, with a consistent 50 Ω impedance and support for up to 35 W input power.

The antenna's linear polarisation and 360° azimuth beamwidth enhance its performance, making it ideal for applications in automotive, M2M, and base stations. Additionally, its integrated GNSS functionality supports GPS, GLONASS, QZSS, and Galileo systems, featuring an active GNSS module with a 24 dBic gain LNA, maintaining low noise for accurate positioning.

With SMA Male connectors and 3000 mm cables...

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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

Cables 1-4: 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
4	SMA Male	Straight	L-195	3000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Avg. Gain	Efficiency
617 MHz	960 MHz	0.1 dBi	> 5.4 dB	< 3.6:1	360°	-5.3 dBi	30%
1427 MHz	2690 MHz	3.9 dBi	> 12.5 dB	< 1.9:1	360°	-3.4 dBi	47%
3300 MHz	5000 MHz	3.4 dBi	> 11.4 dB	< 1.9:1	360°	-3.8 dBi	42%
5150 MHz	5925 MHz	3.9 dBi	> 12.2 dB	< 1.8:1	360°	-3.8 dBi	42%

Cable 5: GPS/GLONASS/QZSS/Galileo

Start Frequency
1575.42 MHz
Stop Frequency
1610 MHz
Input Impedance
50 Ω
Polarisation
Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain
24 dBic
Noise Figure
≤ 1.2 dB
Power Consumption
< 137.5 mW
Min. Operating Voltage
2.7 V
Max. Operating Voltage
5.5 V
RF Connectors

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

Physical Specification

Subtype
Fin / Stud / Combo
Input Ports
5
MIMO
4x4 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions
96 x 90
Ingress Protection
IP67
Materials
ASA Plastic
Mounting
Stud / Bulkhead / Panel
Compliance/Certifications
RoHS

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