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Page



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

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...

Read More





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 50Ω

RF Connectors

Ports RF Interface Body Shape Cable Series Length

4 <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	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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