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## **2J Brick 5GNR/4GLTE/3G/2G High- Performance Mini Embedded Surface Mount Antenna**

SKU  
ANT-2J-00031  
MPN  
2JE71

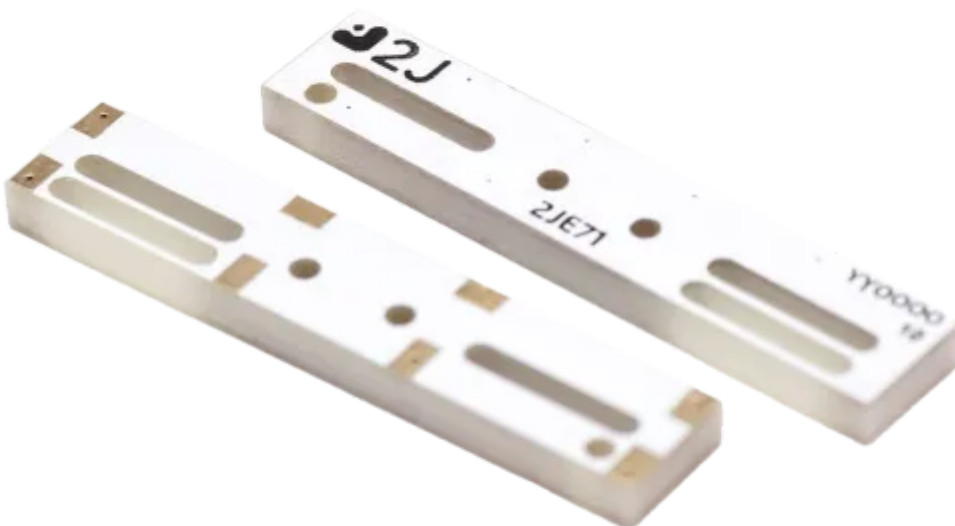
## Description

The 2J Brick Mini Embedded Surface Mount Antenna (SKU: ANT-2J-00031) is a versatile, high-performance solution designed for seamless integration into 5G NR, 4G LTE, 3G, and 2G applications. Manufactured by 2J, this PCB-type antenna features a compact design with dimensions of 40 x 8 x 3 mm and is constructed from durable fibreglass (GRP), ensuring reliability in demanding environments ranging from -40°C to 105°C.

Engineered for efficiency, the antenna operates across a broad frequency spectrum of 617 MHz to 5925 MHz with a 50  $\Omega$  impedance and supports up to 25 W of input power. Its linear polarisation and SISO configuration optimise connectivity for applications in automotive, marine, telematics, automation, and M2M markets. The antenna's robust RF performance, characterised by various gain and efficiency metrics, makes it suitable for a wide array of telecommunication needs.

Compliant with RoHS standards, the 2J Brick antenna is ideal for...

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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

### PCB Surface Mount

Start Frequency

617 MHz

Stop Frequency

5925 MHz

Max. Input Power

25 W

Polarisation

[Linear](#)

Input Impedance

50  $\Omega$

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Avg. Gain	Efficiency
617 MHz	960 MHz	0.5 dBi	> 6.7 dB	< 3.1:1	-2.8 dBi	55%
1427 MHz	2690 MHz	2.7 dBi	> 10.3 dB	< 2:1	-2.2 dBi	61%
3300 MHz	5000 MHz	3.1 dBi	> 10.2 dB	< 2:1	-2.4 dBi	60%

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

5150 MHz 5925 MHz 2.2 dBi > 5.7 dB < 3.5:1 -4.2 dBi 40%

## Physical Specification

Subtype

[PCB / Surface Mount](#)

MIMO

[1x1 SISO](#)

Min. Operating Temperature

-40 °C

Max. Operating Temperature

105 °C

Dimensions

40 x 8 x 3

Materials

[Fibreglass \(GRP\)](#)

Compliance/Certifications

RoHS

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