



Katana 5G NR/4G LTE/3G/2G Ultra-Wide Band Swivel Connector Antenna

Description

KATANA, the World's Smallest Monopole Antenna with Superior Precision and Performance 2J Antennas is introducing Katana, the world's smallest monopole antenna designed for 5G NR applications enhancing mobile broadband (eMBB) and ultra-reliable low-latency communications (URLLC). At only $\varnothing 10 \times 80$ mm, the 2JW1683 antenna is designed with the new sub-6 GHz technology transmissions. This allows it to travel farther and penetrate solid objects such as buildings and busy urban areas making it ideal for access points and terminals. The 2JW1683 offers a modern and compact form factor that significantly reduces device size and integration complexities with a simple plug-and-play antenna solution while outperforming any competitor. Designed for mobile devices operating within 5G NR / 4G LTE / FirstNet / CBRS / LPWA / CAT-X / CAT-Mx / CAT-NBx / NB-IoT standards. The 2JW1683 antenna also includes backward carrier compatibility with 3G / 2G mobile devices and offers the new extended LTE B71 at 600 MHz bands.

Suggested applications include:

– Augmented Reality Wireless Devices- Telemedicine Systems- Smart Cities Mobile Platforms- LTE B71 Mobile Devices- Artificial Intelligence Data Collecting Modules- Manufacturing 4.0- Mobile Gateways- Routers, Terminals and Wireless Access Points

The 2JW1683 is an omni-directional antenna that extends an uninterrupted 360° radiation pattern with extremely high connection reliability while maintaining stable efficiency peak gains across all bands. Combining performance, reliability, and flexibility into a super low profile form factor, makes this antenna the first choice for global broadband mobile applications.

Installation / Environmental

The 2JW1683 comes in white and black standard colors with a SMA-Male in swivel connector that allows for 45° to 90° tilt position range avoiding other objects or antennas and also allowing flexible integration to vertical or horizontal surfaces. The antenna base is made with polyoxymethylene (POM), this thermoplastic is designed for high stiffness, low friction, and excellent dimensional stability. Dimensions of $\varnothing 10 \times 80$ mm give this ground plane dependent antenna a super low profile form factor. 2J Antennas supports the health of our environment and manufactures all our products without hazardous materials making us fully REACH and RoHS compliant.

Technologies 5G, 4G, 3G and 2G

Standards 5G NR/4G LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G
Frequency 617-960, 1427-2690, 3300-5000, 5150-5925
Return Loss (dB) ~-5.3, ~-14.5, ~-4.8, ~-2.5
VSWR ~3.4:1, ~1.7:1, ~4.4:1, ~7.0:1
Efficiency (%) ~51.3, ~57.0, ~31.3, ~18.0
Peak Gain (dBi) ~0.6, ~2.9, ~0.2, ~-6.0
Impedance (Ohm) 50
Polarisation Linear
Radiation Pattern Omni-Directional
Max. Input Power (W) 35

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Author

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