



Ultra-wideband omnidirectional antenna



Frequency: 2GHz~40GHz

Gain, typ. (dBi): ≥ 0 Maximum deviation from circularity: ± 1.5 dB (typical)

Polarization: Vertical polarization VSWR: $\leq 2.0:1$

Impedance (Ohm): 50

Connector: 2.92-50K

Outline: $\varnothing 140 \times 59$ mm

Introduction to the ultra-wideband omnidirectional antenna

Introducing the 2 GHz to 40 GHz omnidirectional antenna, the ideal solution for high-speed wireless communications. This cutting-edge antenna is designed to meet modern communications needs and offers a frequency bandwidth of 2 GHz to 40 GHz. This means it can easily transmit high-speed data, video streaming, and other big data, making it ideal for a variety of communications needs.

One of the most remarkable features of this antenna is its omnidirectional capability, which allows it to send and receive signals in all directions. This means that no matter where your communication needs are, this antenna can meet your needs.



Thanks to its wide bandwidth, the antenna can communicate across multiple frequency bands, making it a versatile option for a variety of application scenarios. From industrial environments to consumer electronics, this antenna offers the flexibility to meet a variety of needs. Whether you're looking to enhance your current communications infrastructure or explore new possibilities for wireless connectivity, this antenna is a reliable and effective choice.

Frequency range: 2-40 GHz

Gain, type: ≥ 0 dbi (TIP.)

Maximum deviation from circularity ± 1.5 dB (typical)

Polarization: vertical polarization SWR: \leq

2.0:1

Impedance: 50 OHM

Port Connectors: 2.92-50K

Operating temperature range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

weight 0.5kg

Surface color: Pattern: Black

$\phi 140 \times 59$ mm

Comments:

The power rating is for a load VSWR better than 1.20:1

Environmental specifications

Operating temperature $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage temperature $-50^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Vibration Resistance 25gRMS (15 degrees 2KHz), 1 hour per axis

Humidity 100% RH at 35°C , 95% RH at 40°C

20G shock for 11 msec half-sine wave, 3 axes in both directions

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Item	materials	surface
Upper antenna cone		Red copper passivation
Antenna base plate color	5A06 anti-rust aluminum	Conductive oxidation of the
Antenna housing: Honeycomb laminated fiberglass		
fixed part	PMI foam	
Rohs	compliant	
Weight	0.5 kg	

Schematic drawing:

All dimensions in mm

Contour tolerances $\pm 0.5(0.02)$

Mounting hole tolerances $\pm 0.2(0.008)$

All connectors: 2.92-female





