

WPANT10005

Dual-band Wi-Fi Embedded Antenna



Application

High performance, broad bandwidth and ease of integration make this an ideal dual-band Wi-Fi chip antenna.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to trouble shoot system integration issues such as TRP/TIS and FCC requirements. We specialize in developing customized Antenna solutions. Please contact sales@worldproducts.com with your specific application requirements.

Electrical Properties

Operating Frequency	2.4 – 2.5 GHz	4.9 – 5.85 GHz
Approximate Antenna Impedance [Ω]	50 Ω	50 Ω
VSWR (Typical)*	< 2:1	< 2.5:1
Peak Gain [dBi] (Typical)*	3 dBi	5.5 dBi
Efficiency [%] (Typical)*	75 %	75 %
Polarization	Linear	Linear
Pattern	Near Omni-directional	Near Omni-directional
Minimum Ground Plane Size Required	40 – 45 mm	40 – 45 mm

***Note:** These performance metrics were recorded with the Antenna installed on a circuit board, with the board layout as prescribed in the Application Notes (please refer to the Application Notes).

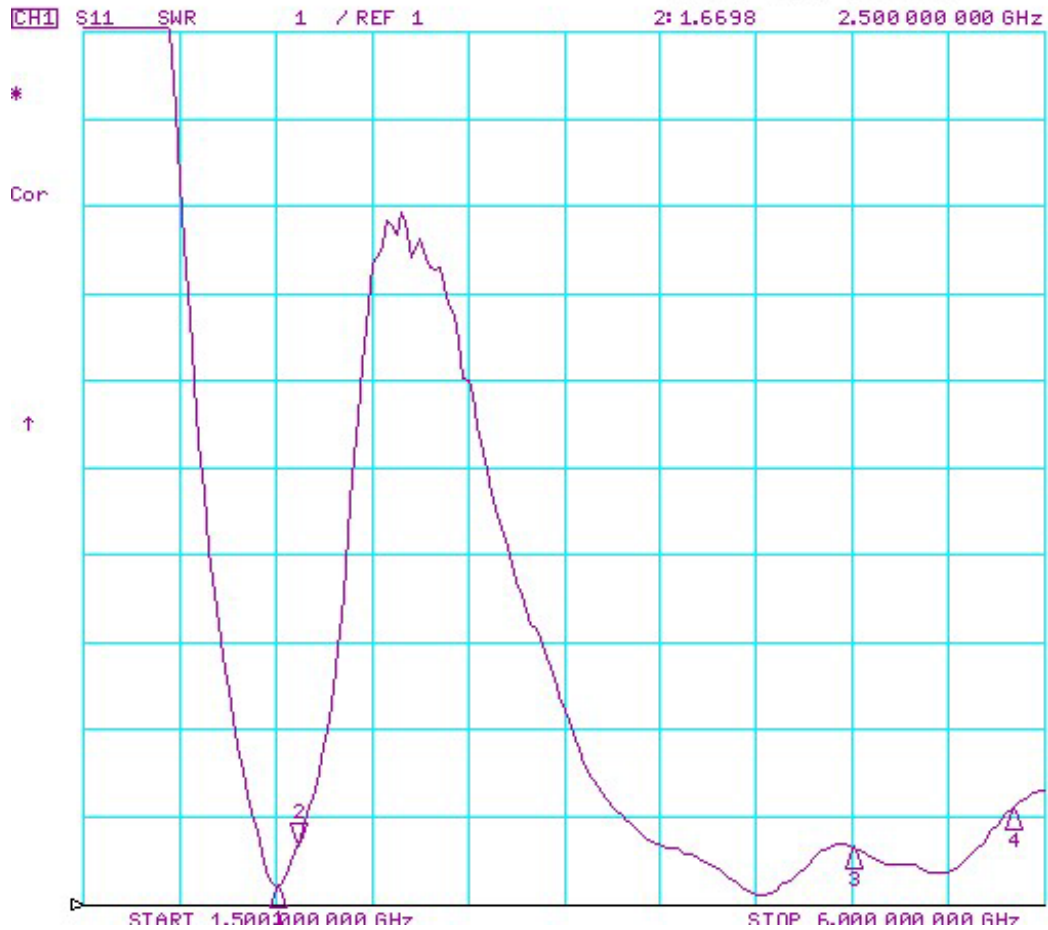
Mechanical / Environmental Properties

Antenna Dimensions	0.42" x 0.31" x 0.031" (10.8mm x 8mm x 0.8mm)
Antenna Color	Black
Operating / Storage Temperature	-40°C to +125°C
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

Pictures



VSWR



CH1 Markers

1: 1.1995
2.40000 GHz
3: 1.6423
5.10000 GHz
4: 2.0986
5.85000 GHz