

## WPANT10001

### Bluetooth / BLE / Wi-Fi / Zigbee Embedded Antenna



### Application

High performance and ease of integration make this an ideal 2.4 GHz 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](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

<b>Operating Frequency</b>	2.4 – 2.5 GHz
<b>Approximate Antenna Impedance [<math>\Omega</math>]</b>	50 $\Omega$
<b>VSWR (Typical)*</b>	< 2:1
<b>Peak Gain [dBi] (Typical)*</b>	3 dBi
<b>Efficiency [%] (Typical)*</b>	65 %
<b>Polarization</b>	Linear
<b>Pattern</b>	Near Omni-directional
<b>Minimum Ground Plane Size Required</b>	35 – 40 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).

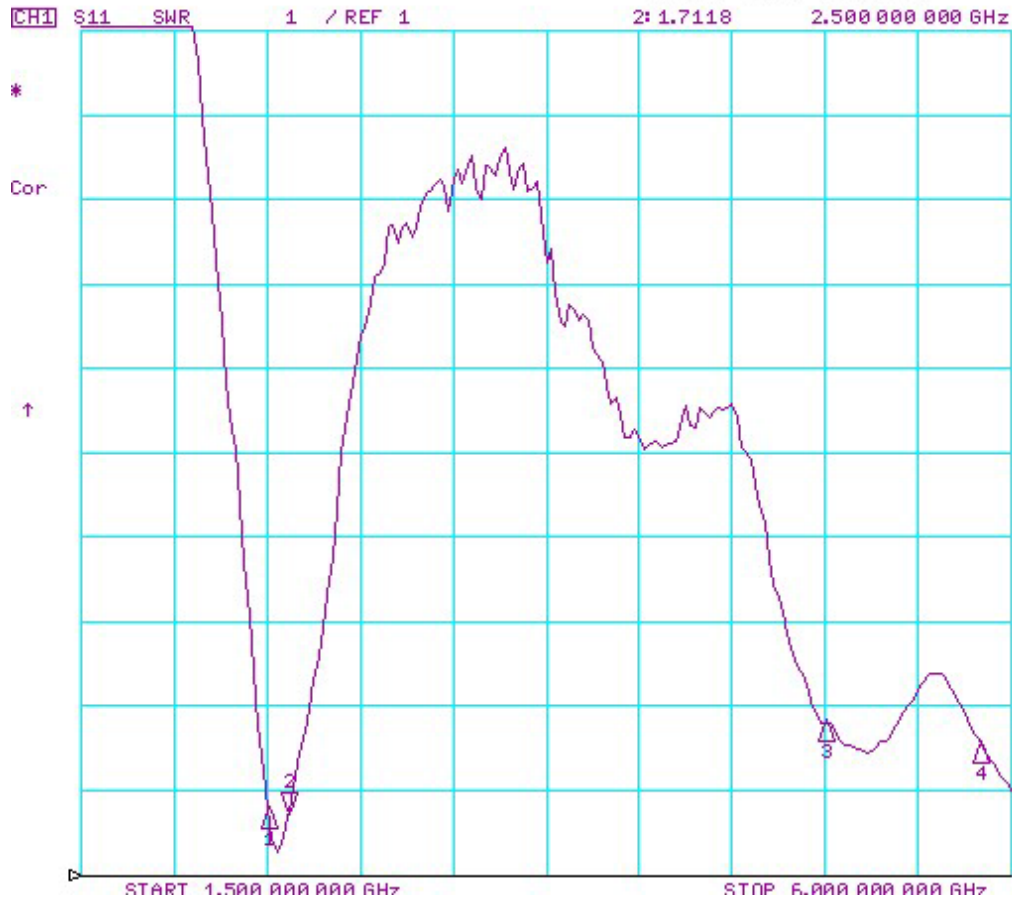
### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	0.5" x 0.18" x 0.031" (13mm x 4.5mm x 0.8mm)
<b>Antenna Color</b>	Black
<b>Operating / Storage Temperature</b>	-40°C to +125°C
<b>Environmental</b>	Meets standards for UL 94V-0
<b>Hazardous Materials</b>	RoHS Compliant

## Pictures



VSWR



CH1 Markers

1:	1.7943	2.40000 GHz
3:	2.8175	5.10000 GHz
4:	2.5769	5.85000 GHz