

## WPANT10053-C1A

### 2.4 GHz Bluetooth / Wi-Fi / Zigbee Embedded Antenna



### Description / Application

This is a 2.4 GHz on board Chip Antenna. Broad bandwidth, good efficiency, compact size and ease of integration make this an ideal choice for applications where there are tight space requirements.

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 [Ω]</b>	50Ω
<b>VSWR – Typical*</b>	< 2:1
<b>Peak Gain [dBi] (Typical)*</b>	~ 0.5 dBi
<b>Efficiency [%] (Typical)*</b>	35 – 40 %
<b>Polarization</b>	Linear
<b>Pattern</b>	Near Omni-directional

\*Note: These performance metrics were recorded with the Antenna installed on a circuit board.

### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	0.22" X 0.13" X 0.031" (5.7mm X 3.4mm X 0.79mm)
<b>Antenna Color</b>	Black
<b>Operating / Storage Temperature</b>	-40°C to +90°C
<b>Environmental</b>	Meets standards for UL 94V-0
<b>Hazardous Materials</b>	RoHS Compliant

Pictures of the Antenna



**2D Drawings of the Board Layout**

