

## WPANT10053

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



### Application

Small size 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>	0.5 dBi
<b>Efficiency [%] (Typical)*</b>	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 +125°C
<b>Environmental</b>	Meets standards for UL 94V-0
<b>Hazardous Materials</b>	RoHS Compliant

## Pictures



2D Drawings of the Board Layout

