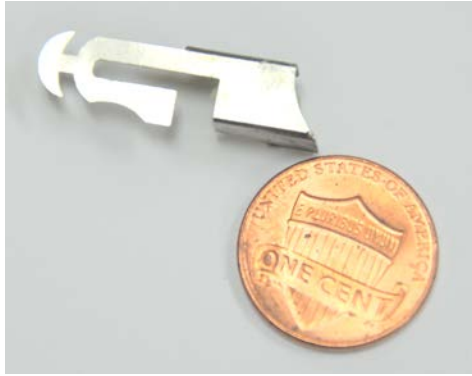


## WPANT10007-SA

### Dual-band Wi-Fi Embedded Antenna



### Description / Application

This is a 2.4 GHz & 5.4 GHz Dual-band Wi-Fi on board Stamped Metal PIFA Antenna. Broad bandwidth, excellent efficiency and ease of integration make this an ideal choice for applications where performance is very important.

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

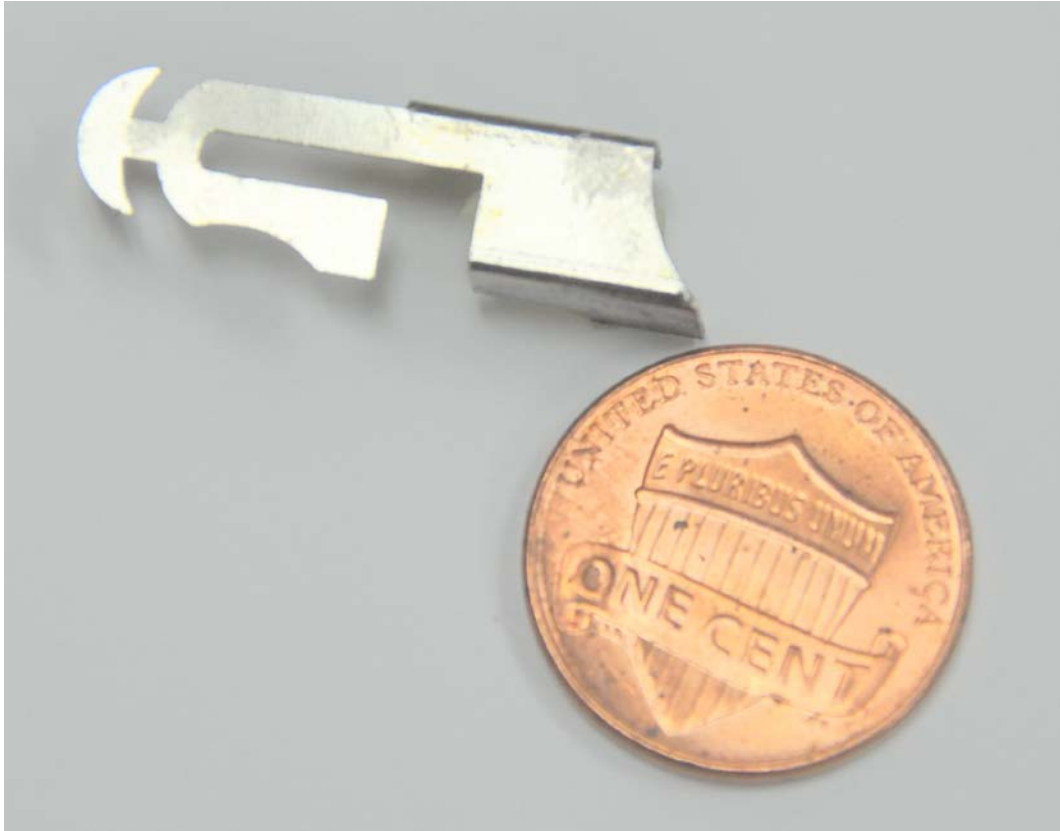
<b>Operating Frequency*</b>	2.4 – 2.5 GHz	4.9 – 5.85 GHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω	50Ω
<b>VSWR – Typical*</b>	< 2:1	< 3:1
<b>Peak Gain [dBi] (Typical)*</b>	~ 2.5 dBi	4 to 5 dBi
<b>Efficiency [%] (Typical)*</b>	80 – 90 %	55 – 80 %
<b>Polarization</b>	Linear	Linear
<b>Pattern</b>	Near Omni-directional	Near Omni-directional
<b>Minimum Ground Plane Size Required</b>	45 – 55 mm	45 – 55 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).

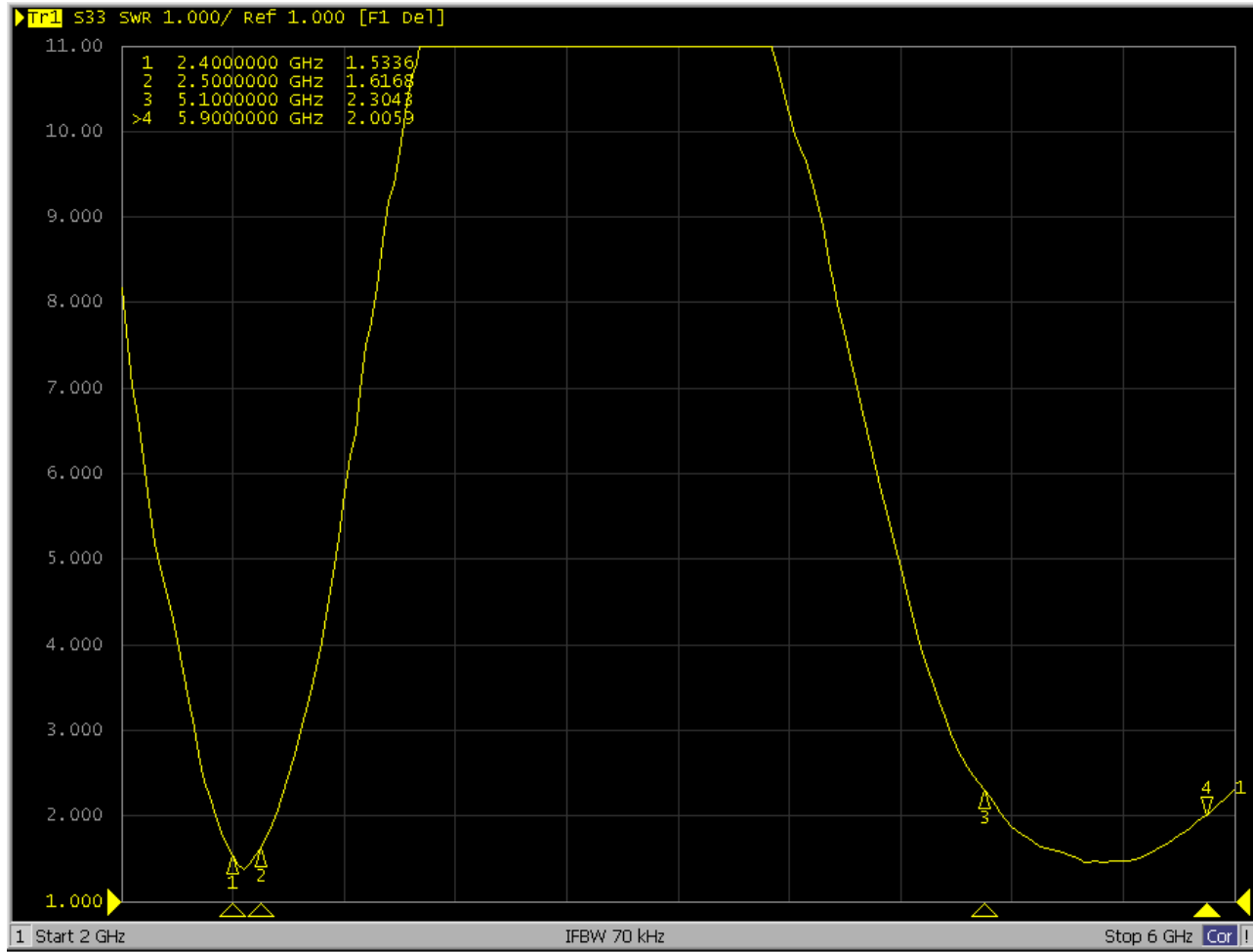
### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	1.1" X 0.31" X 0.14" (27.5mm X 8mm X 3.5mm)
<b>Antenna Color</b>	Metallic Silver
<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

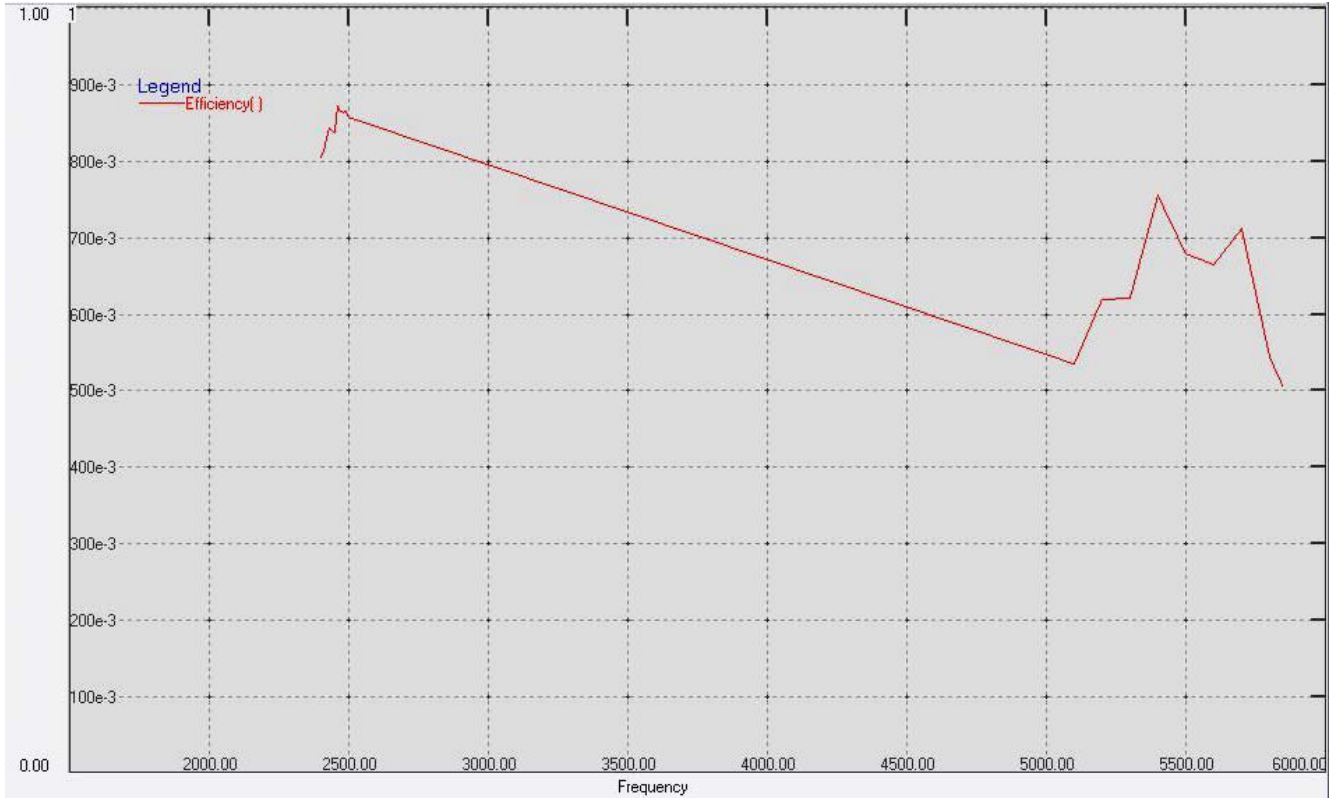
Pictures of the Antenna



### VSWR of the Antenna



**Total Radiation Efficiency of the Antenna in % (including VSWR losses)**



Peak Gain of the Antenna in dBi

