

## WPANT30061-S1A

### 5 GHz Wi-Fi and GPS Body-mount Antenna



### Description / Application

This body-mount antenna has a True-Omni directional 5 GHz radiator, and an L1 band GPS element. It can be mounted on any surface (metallic or non-metallic & on slightly curved surfaces as well). This patented design boasts small form factor while maintaining optimal performance in all the three bands. It can be customized with different cable lengths and connectors. The antenna is at DC ground to ensure protection against lightning.

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>	1567 – 1583 MHz	4.9 – 5.9 GHz
<b>Approximate Antenna Impedance [<math>\Omega</math>]</b>	50 $\Omega$	50 $\Omega$
<b>VSWR – Typical</b>	< 2:1	< 2:1
<b>Peak Gain [dBi] (Typical)</b>	27 dBi	See page 4
<b>Efficiency [%] (Typical)</b>	--	See page 3
<b>Polarization</b>	RHCP	Linear
<b>Pattern</b>	--	True Omni-directional
<b>Voltage [V] (Typical)</b>	3 V	--
<b>Current [mA] (Typical)</b>	15 mA	--
<b>Accepted Power [W] (Max)</b>	65 mW	2 Watts
<b>Lightning Protection</b>	DC ground	

### Mechanical / Environmental Properties

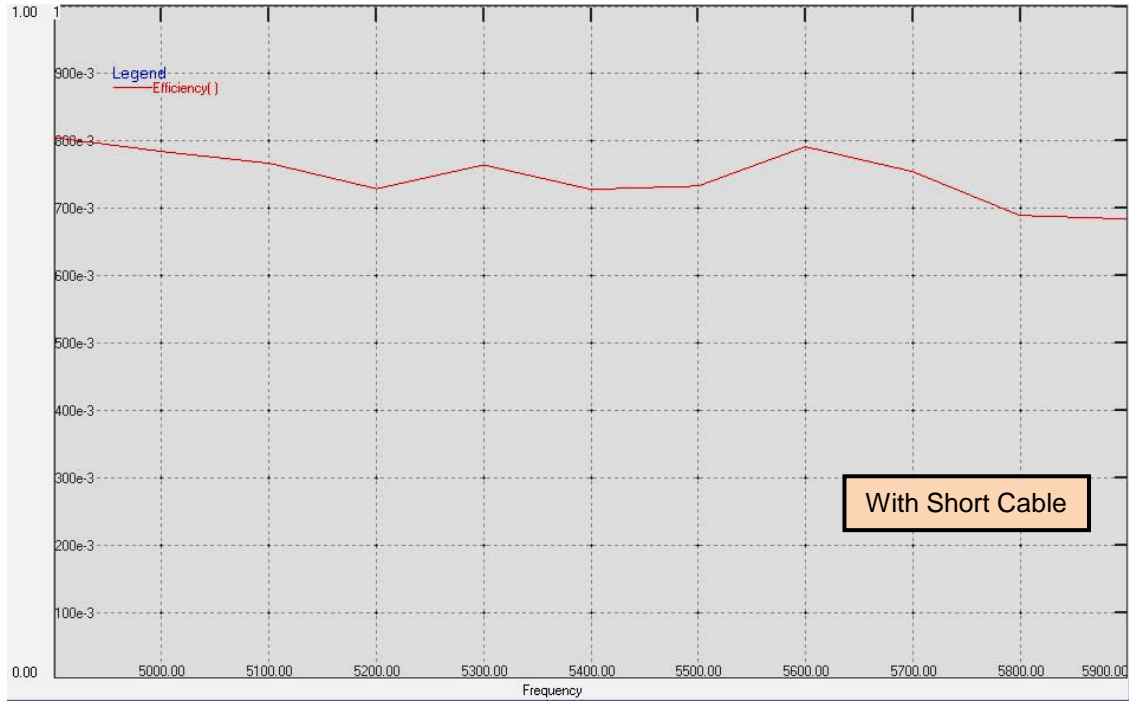
<b>Antenna Dimensions</b>	3.85" Base Dia X 3" Height (98mm X 75mm)	
<b>Antenna Color</b>	Cool Grey	
<b>Cable</b>	10 feet long RG316 (1575 MHz) 18 feet long LMR200 (5 GHz)	
<b>Connector</b>	Straight SMA male (1575 MHz) Type-N female (5 GHz)	
<b>Operating / Storage Temperature</b>	-40°C to +90°C	
<b>Environmental</b>	Meets standards for UL 94V-0	
<b>Hazardous Materials</b>	RoHS Compliant	

Pictures of the Antenna

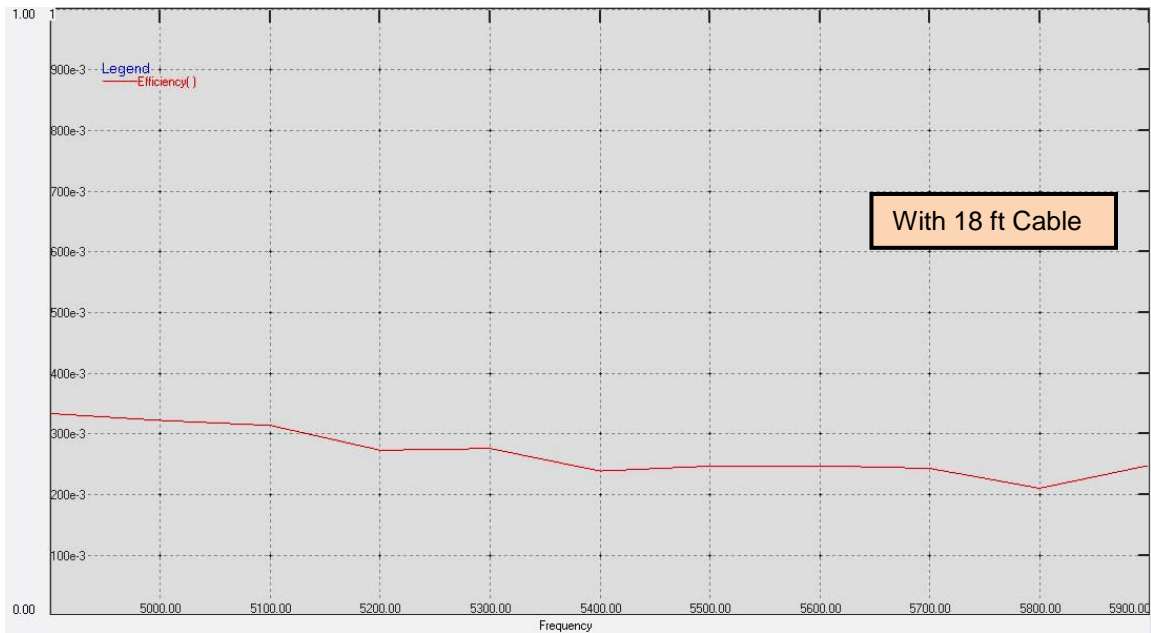


**Total Radiation Efficiency of the Antenna in % (including VSWR losses)**

4.9 – 5.9 GHz band only



With Short Cable

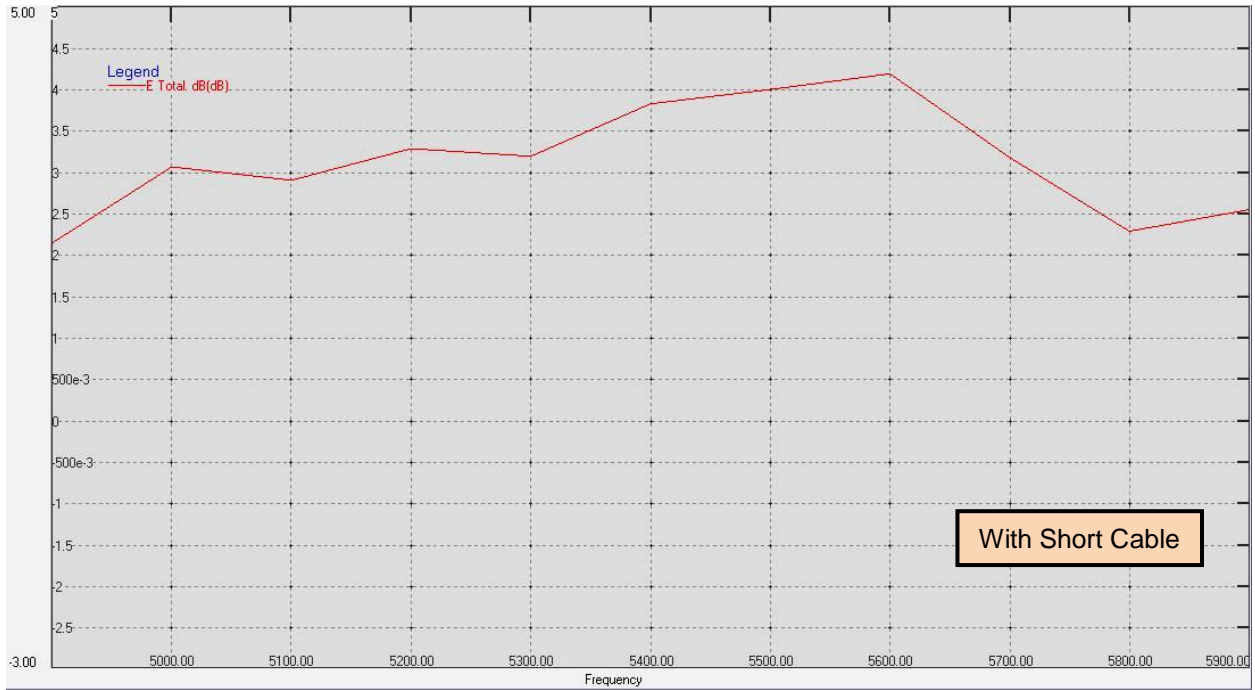


With 18 ft Cable

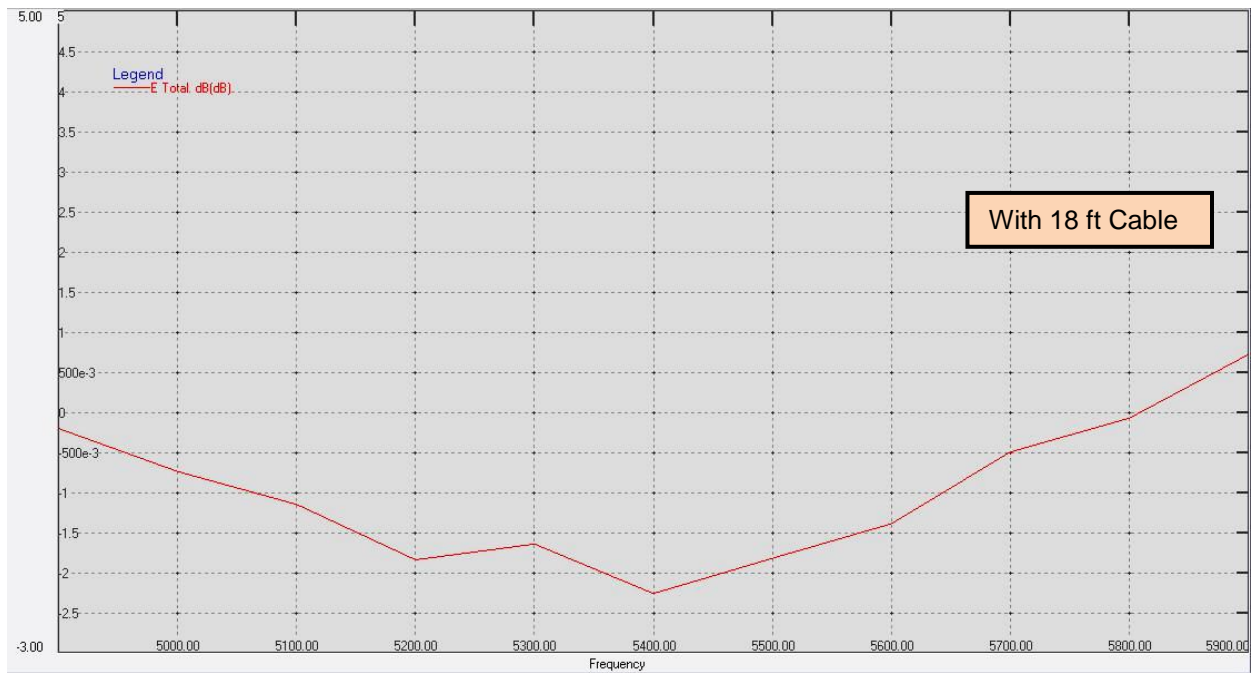
\*True-Omni directional 5GHz radiator

**Peak Gain of the Antenna in dBi**

4.9 – 5.9 GHz band only



With Short Cable



With 18 ft Cable

\*True-Omni directional 5GHz radiator