

## WPANT30060-S1A

### 3G, Wi-Fi and GPS Body-mount Antenna



### Description / Application

This body-mount antenna has a highly efficient Penta-band GSM antenna (3G), 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.

Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

<b>Operating Frequency</b>	824 – 960 MHz	1567 – 1583 MHz	1710 – 2170 MHz	4.9 – 5.9 GHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω	50Ω	50Ω	50Ω
<b>VSWR – Typical</b>	< 3:1	< 2:1	< 2.5:1	< 2:1
<b>Peak Gain [dBi] (Typical)</b>	2.5 dBi	27 dBi	3 dBi	See page 4
<b>Efficiency [%] (Typical)</b>	85 %	--	80 %	See page 3
<b>Polarization</b>	Linear	RHCP	Linear	Linear
<b>Pattern</b>	Near Omni-directional	--	Near Omni-directional	True Omni-directional
<b>Voltage [V] (Typical)</b>	--	3 V	--	--
<b>Current [mA] (Typical)</b>	--	15 mA	--	--
<b>Accepted Power [W] (Max)</b>	2 Watts	65 mW	2 Watts	2 Watts
<b>Lightning Protection</b>	DC ground			

### Mechanical / Environmental Properties

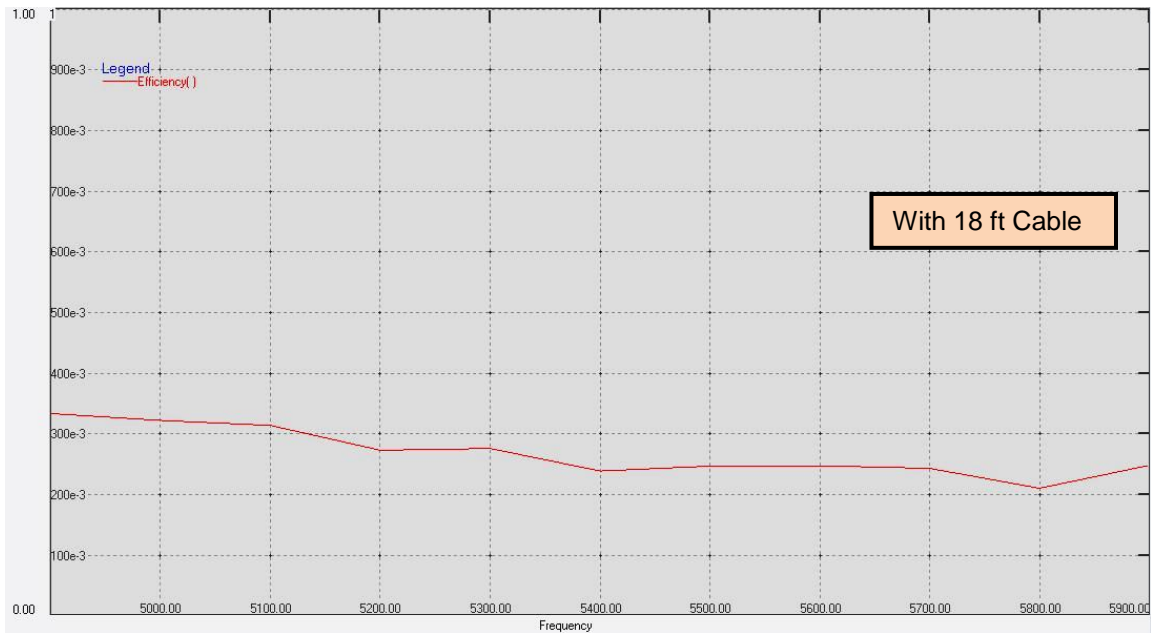
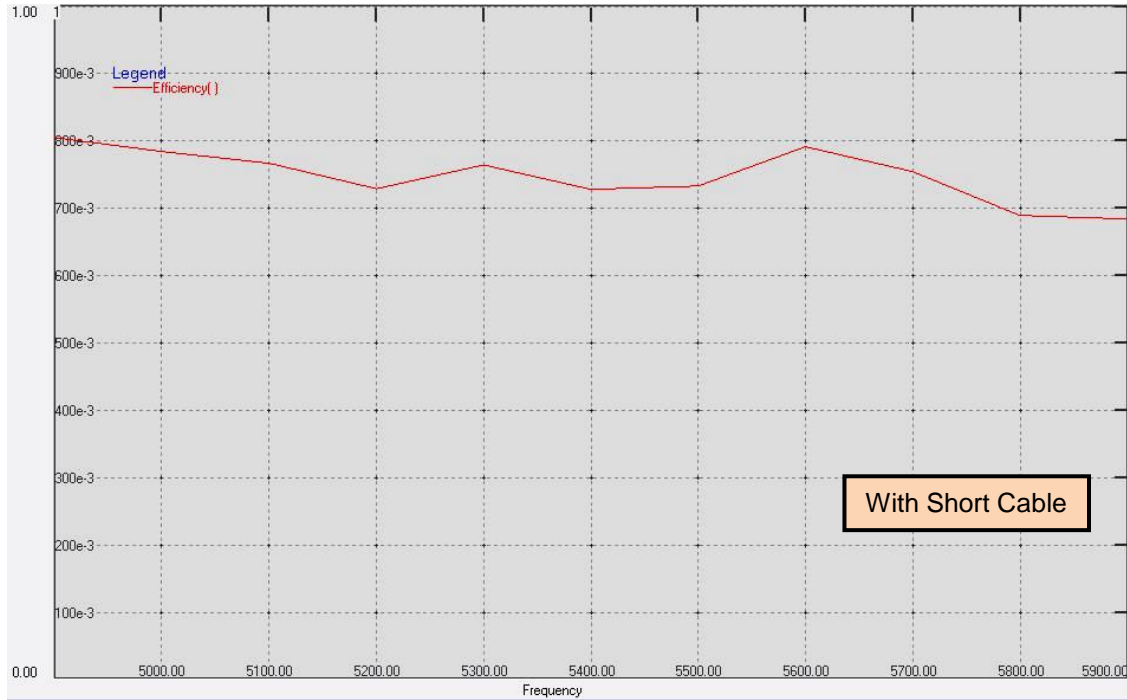
<b>Antenna Dimensions</b>	4.8" Base Dia X 3.74" Height (122mm X 95mm)
<b>Antenna Color</b>	Cool Grey
<b>Cable</b>	10 feet long LMR200 (850/900/1800/1900/2100 MHz) 10 feet long RG316 (1575 MHz) 18 feet long LMR200 (5 GHz)
<b>Connector</b>	Right angle SMA male (850/900/1800/1900/2100 MHz) Straight SMA 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)

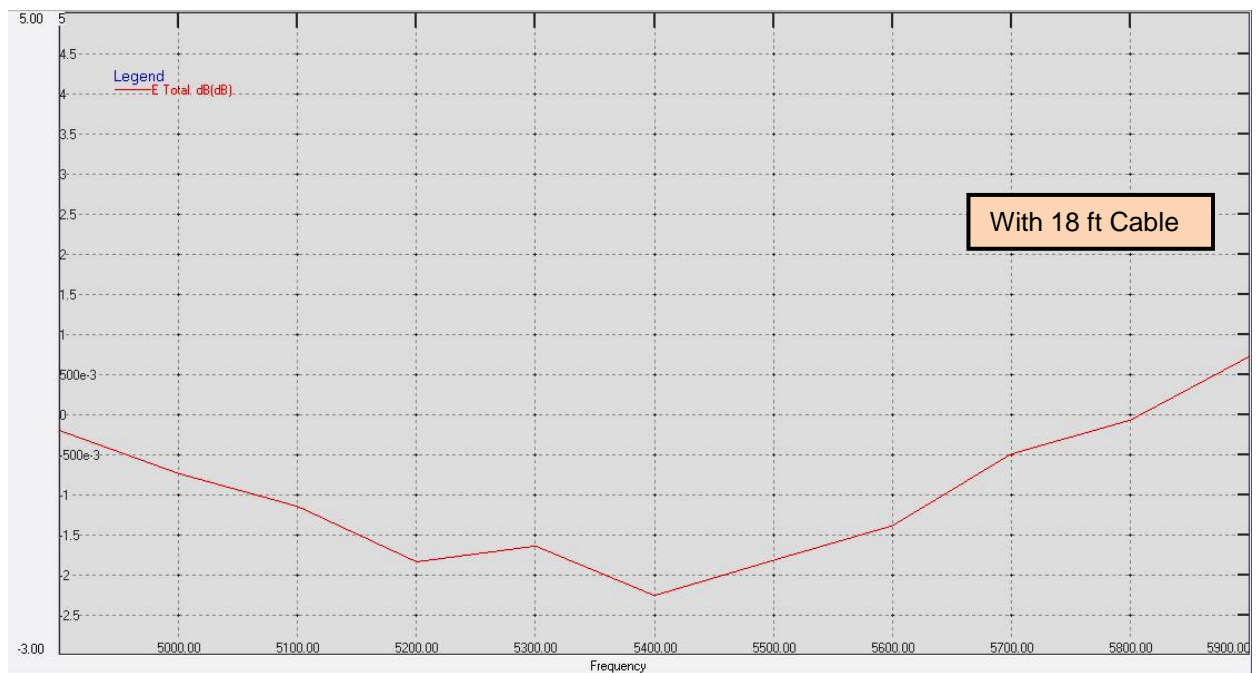
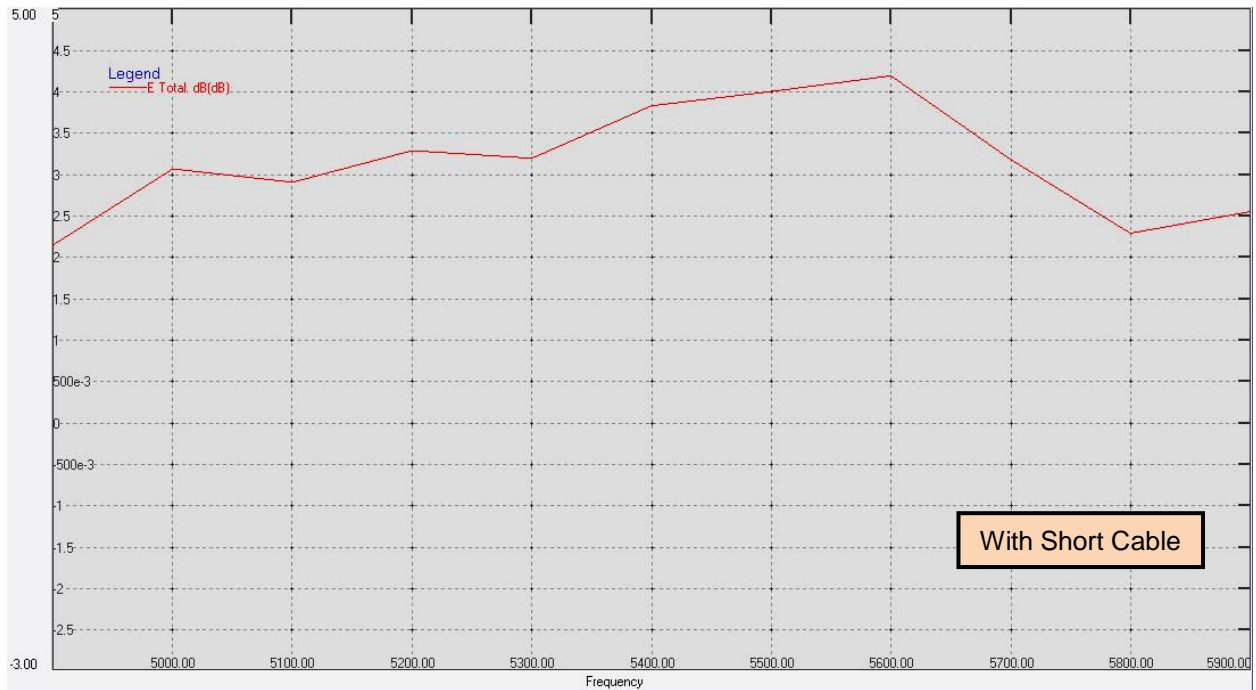
4.9 – 5.9 GHz band only



\*True-Omni directional 5GHz radiator

## Peak Gain of the Antenna in dBi

4.9 – 5.9 GHz band only



\*True-Omni directional 5GHz radiator