

WPANT30074-S1A

4G Cellular & ISM band Omni Antenna



Description / Application

This is a **Surface Independent, High Performance** 4G Cellular & ISM band Antenna, which is very compact in shape. The Antenna can be configured with different Connector styles. This configuration has 1 meter RG58 Cable with straight SMA Male Connector. The antenna is at DC ground to ensure protection against lightning.

The Antenna can be mounted to any surface, metal, concrete or wood and it will have the same characteristics, without any change in the antenna tuning. This antenna does not need extra ground plane.

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 with your specific application requirements.

Electrical Properties

Operating Frequency	698 – 960 MHz	1392 – 1435 MHz	1710 – 2700 MHz
Approximate Antenna Impedance [Ω]	50 Ω	50 Ω	50 Ω
VSWR – Typical	< 3:1	< 2.5:1	< 2.5:1
Peak Gain [dBi] (Typical)	2 dBi	2 dBi	4 dBi
Efficiency [%] (Typical)	80 %	75 %	75 %
Polarization	Linear		
Pattern	Near Omni-directional; Also depends on installation		
Accepted Power [W] (Max)	2 Watts		
Lightning Protection	DC ground		

Mechanical / Environmental Properties

Antenna Dimensions	5.3" Base Dia X 3.94" Height (134mm X 100mm)
Antenna Color	White
Cable	1 meter long RG-58
Connector	Straight SMA male
Antenna Radome	ABS + Polycarbonate
Operating / Storage Temperature	-40°C to +90°C
Environmental	Salt Spray Resistant, Water Ingress Resistant, UV Resistant, Ageing Resistant, Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

Pictures of the Antenna (3D Model)



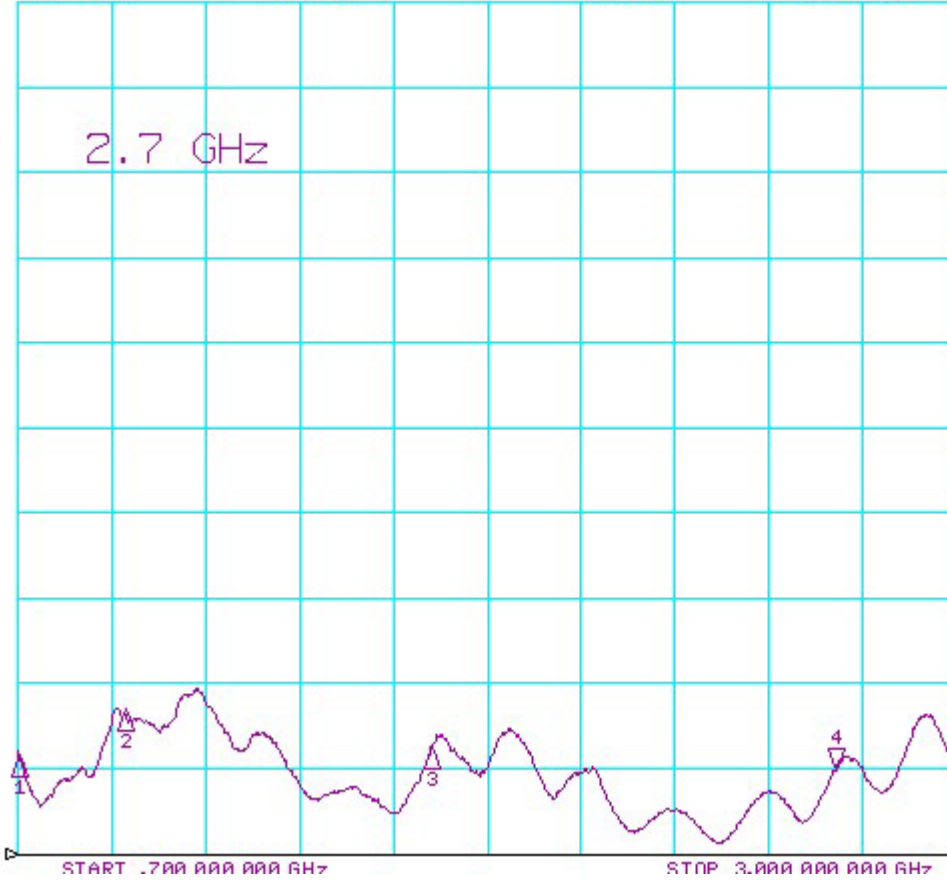
VSWR of the Antenna

CH1 S11 SWR 1 / REF 1 4: 1.9834 2.700 000 000 GHz

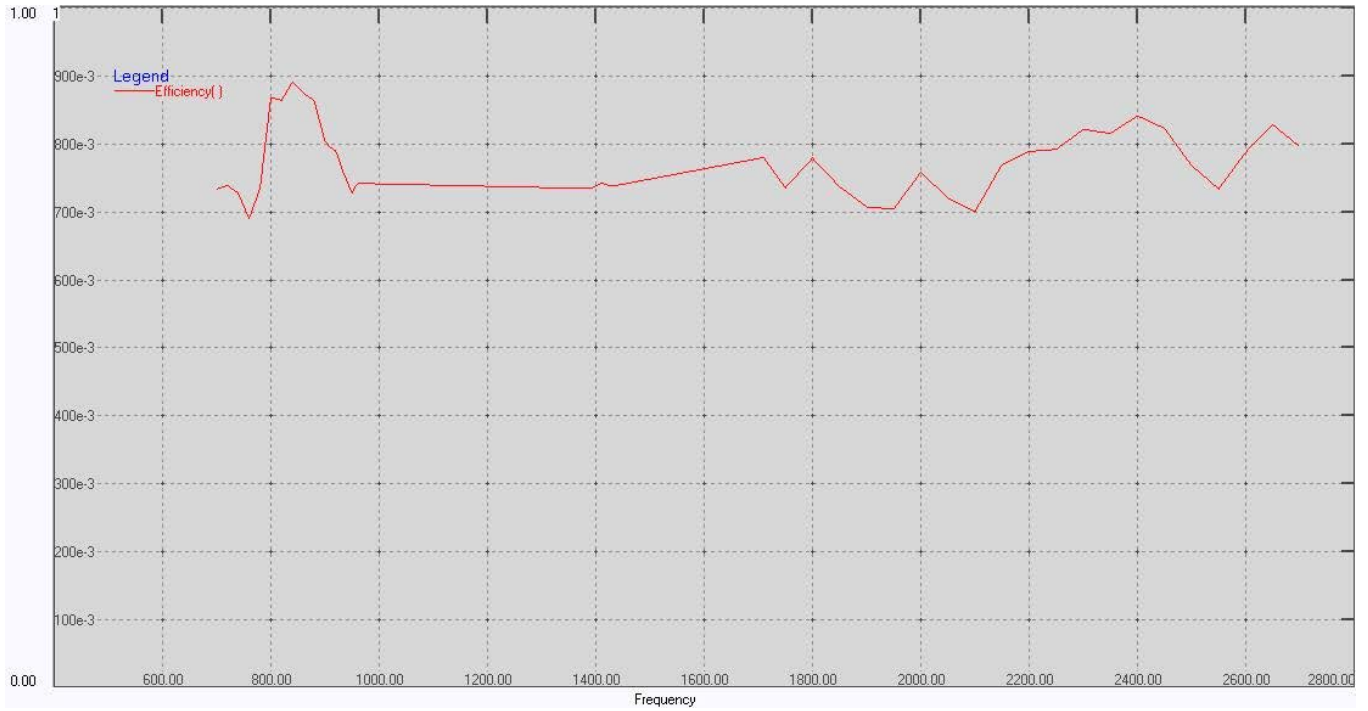
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2.7 GHz

CH1 Markers
 1: 2.1896
 700.000 MHz
 2: 2.7451
 950.000 MHz
 3: 2.2162
 1.71000 GHz



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



Peak Gain of the Antenna in dBi

