

## WPANT10024-SC

### Dual-band GSM Embedded Antenna



### Description / Application

This dual-band GSM embedded low-profile PCB Antenna can be installed inside any wireless device. It can be mounted on any non-metallic surface to achieve optimal performance. Broad bandwidth and ease of integration make this an ideal choice for applications where flexibility is needed. This antenna comes with a standard 3M double stick tape on the back for easy installation.

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.

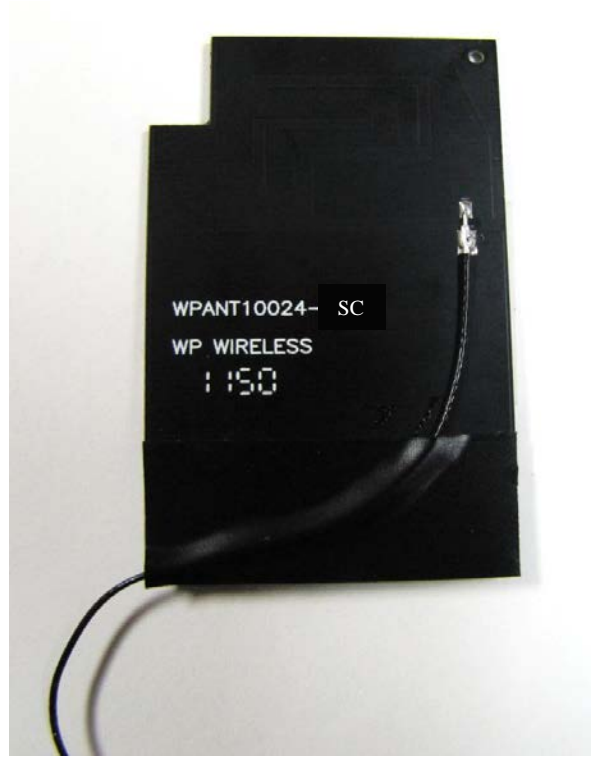
### Electrical Properties

<b>Operating Frequency</b>	824 – 894 MHz	1850 – 1990 MHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω	50Ω
<b>VSWR – Typical</b>	< 2:1	< 2:1
<b>Peak Gain [dBi] (Typical)</b>	2 to 4 dBi	~ 3 dBi
<b>Efficiency [%] (Typical)</b>	50 – 65 %	50 – 60 %
<b>Polarization</b>	Linear	Linear
<b>Pattern</b>	Near Omni Directional	Near Omni Directional

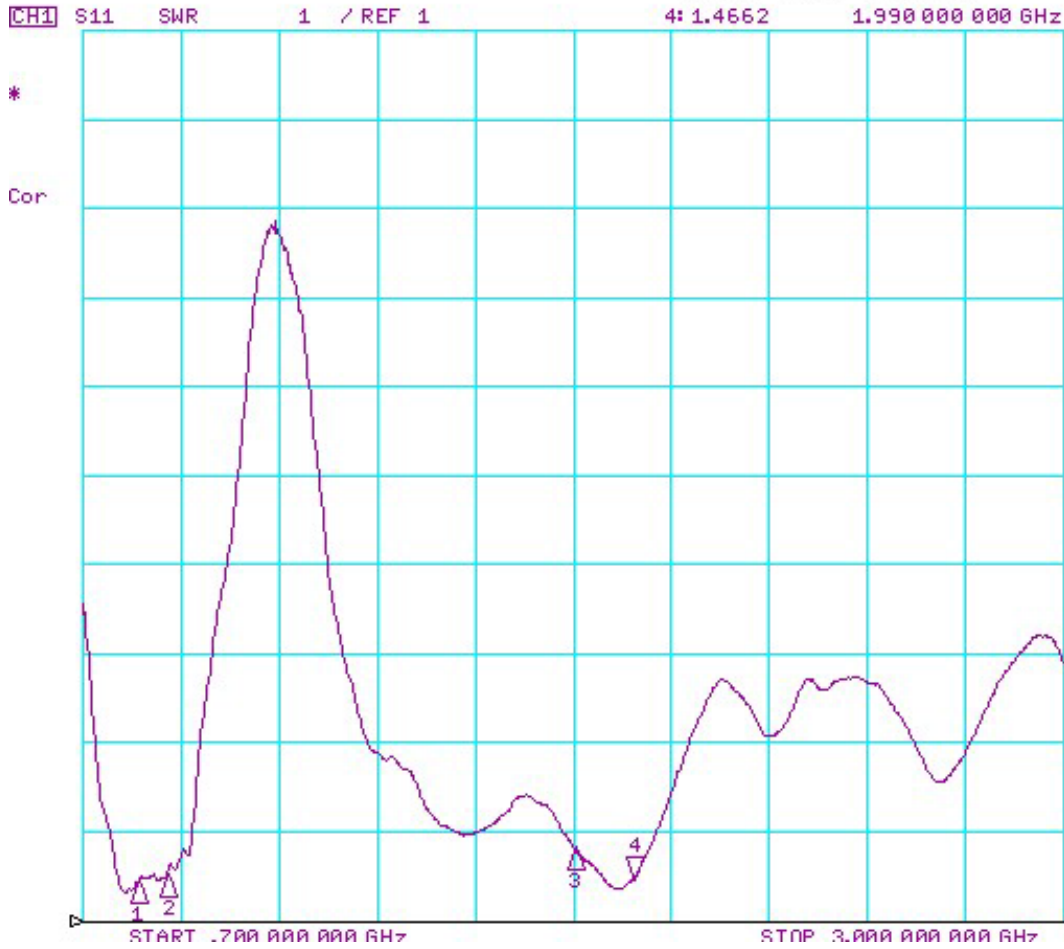
### Mechanical / Environmental Properties

<b>Antenna Dimensions</b>	2.63" X 1.55" X 0.031" (66.8mm X 39.35mm X 0.78mm)
<b>Antenna Color</b>	Black
<b>Cable</b>	5.7" long 0.8mm OD Micro Co-ax W.FL
<b>Connector</b>	Hirose W.FL equivalent
<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



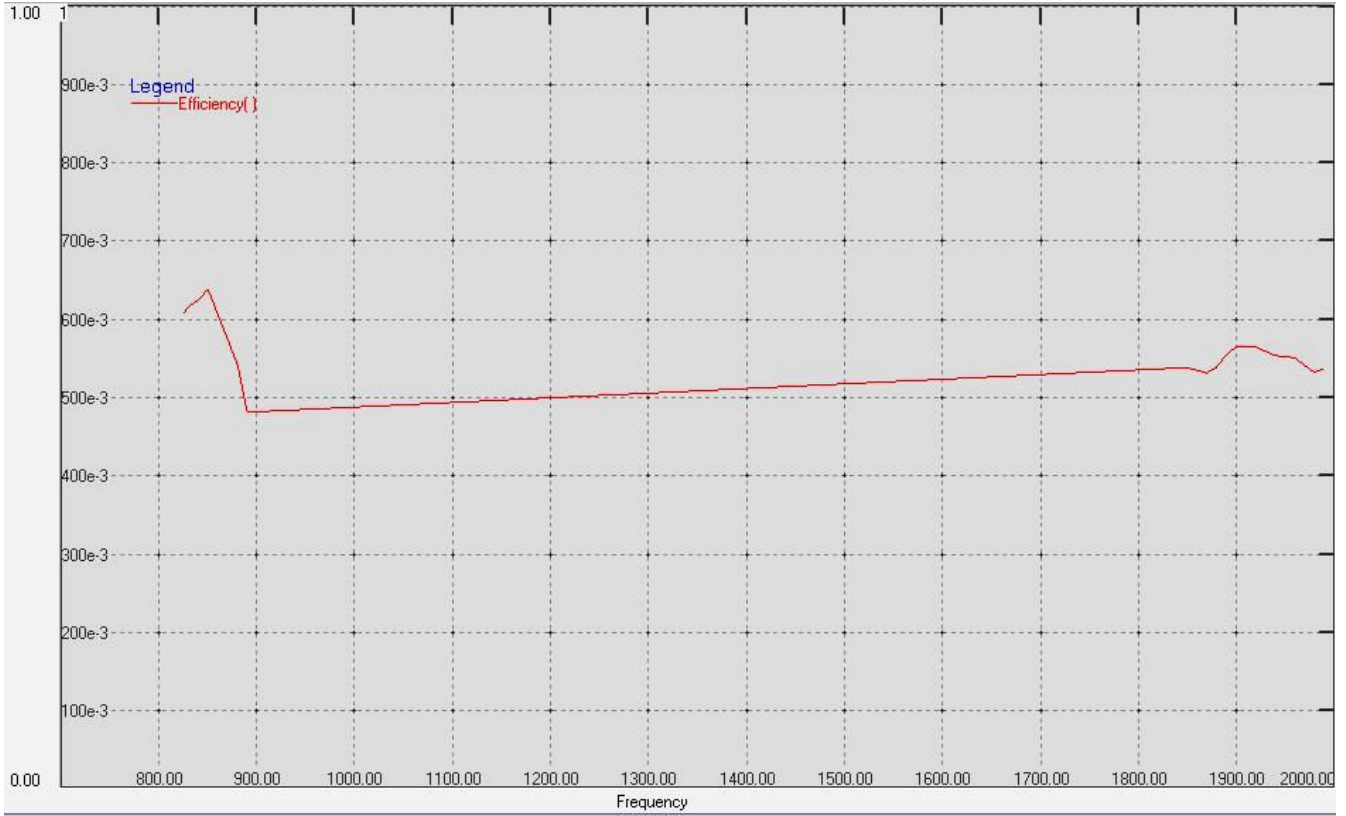
### VSWR of the Antenna



CH1 Markers

1:	1.4109	824.000 MHz
2:	1.5669	894.000 MHz
3:	1.8121	1.85000 GHz

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



**Peak Gain of the Antenna in dBi**

