



### Explanation of Part Number

WPANTPIFA 005A  
(1) (2)

- (1) Product Series WPANTPIFA
- (2) Product No. 005A

**Preliminary Datasheet**  
**Subject to change without notice**

### Electrical Specification

<b>Frequency Range</b>	GSM 850/E-GSM 900	DCS 1800/PCS1900/UMTS2100
	824~960 MHz	1710-2170MHz
<b>Impedance</b>	50Ω (typ.)	
<b>V.S.W.R.</b>	2.8:1 (Max)	
<b>Peak Gain</b> (Total power H plane)	TBC based on final application	TBC based on final application
<b>Polarization</b>	Linear	
<b>Operating Temperature</b>	-40 ~ +75°C	
<b>Maximum Power (CW)</b>	2 watts	
<b>SAR (USA)</b>	< 1.6W/kg (averaged over a mass of 1 gram per FCC specification)	
<b>SAR (Europe)</b>	< 2.0W/kg (averaged over a mass of 10 gram per CENELEC specification)	
<b>Dimension (mm)</b>	52mm x 28.8mm x 7mm	

### Plane definition

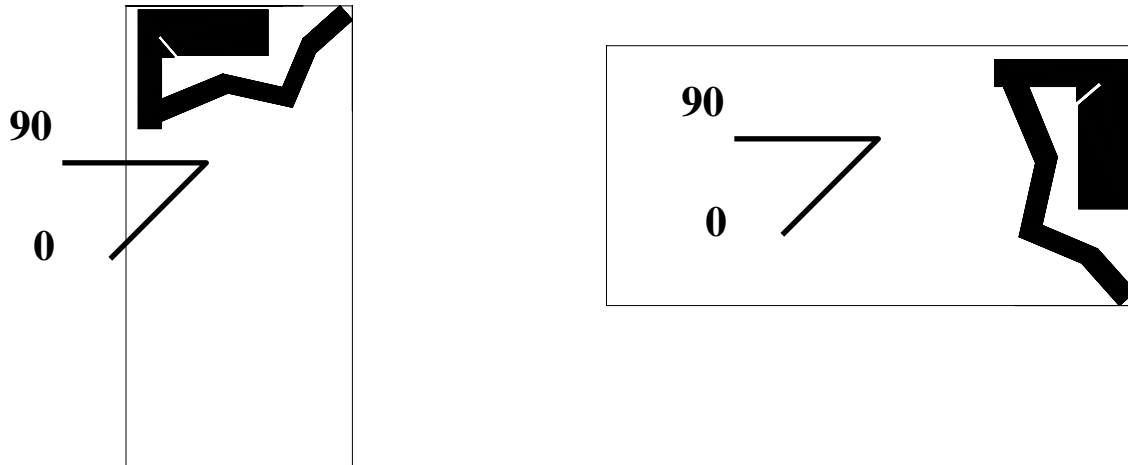
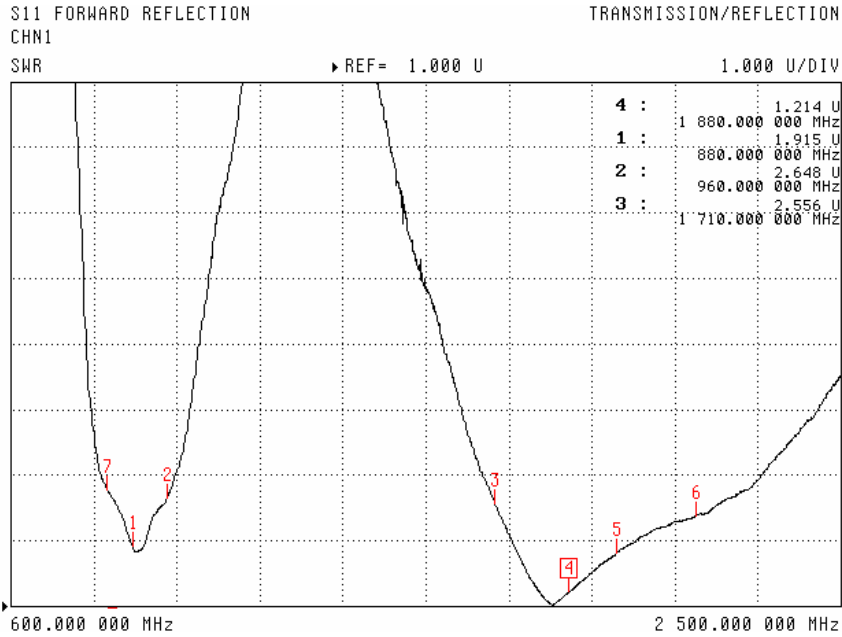


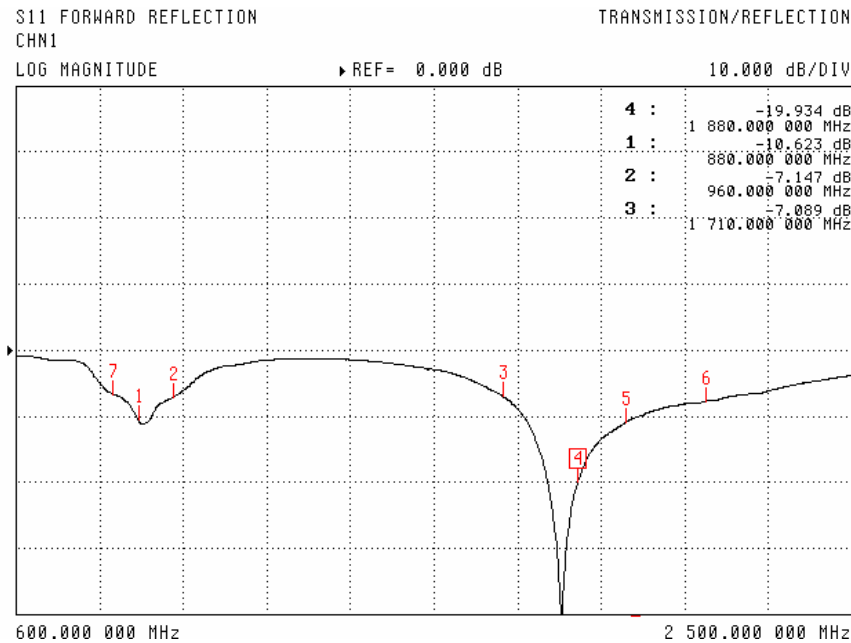
Fig.1 Gain Pattern measurement definition



### VSWR



### Return Loss



### Summary Gain Tables



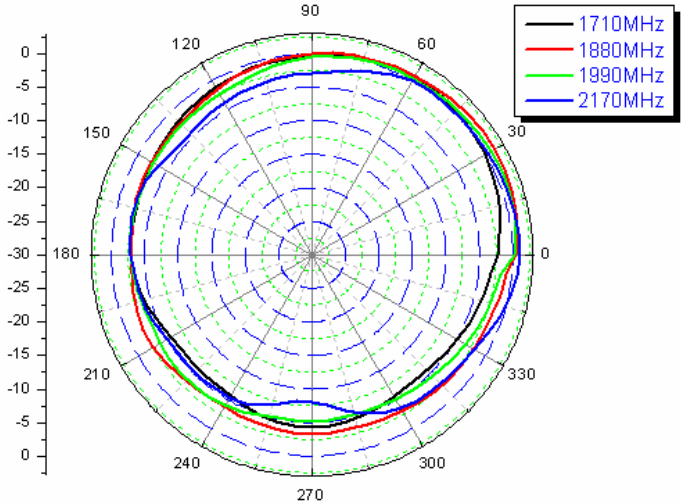
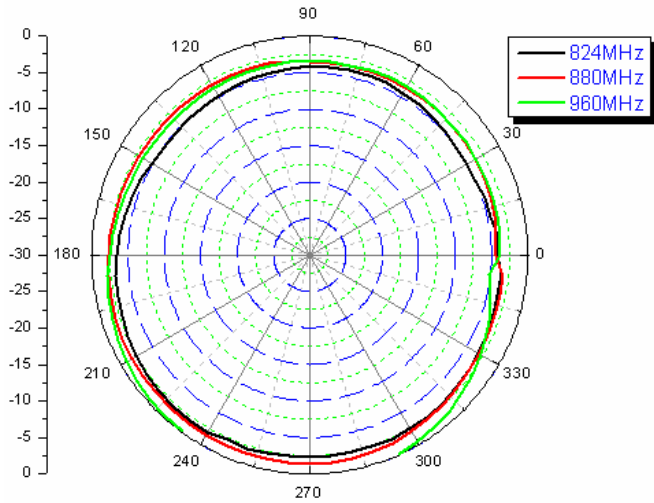
<b>Total power</b>	<b>Max (dBi)</b>	<b>Min (dBi)</b>	<b>Average (dBi)</b>
<b>824</b>	-1.99	-12.06	-3.52
<b>880</b>	-1.46	-4.50	-2.69
<b>960</b>	-0.43	-5.71	-2.08
<b>1710</b>	-0.53	-5.95	-3.56
<b>1880</b>	-0.43	-3.82	-2.27
<b>1990</b>	-0.95	-5.48	-2.96
<b>2170</b>	-0.08	-8.11	-3.25

**(1) Total power for H-plane**

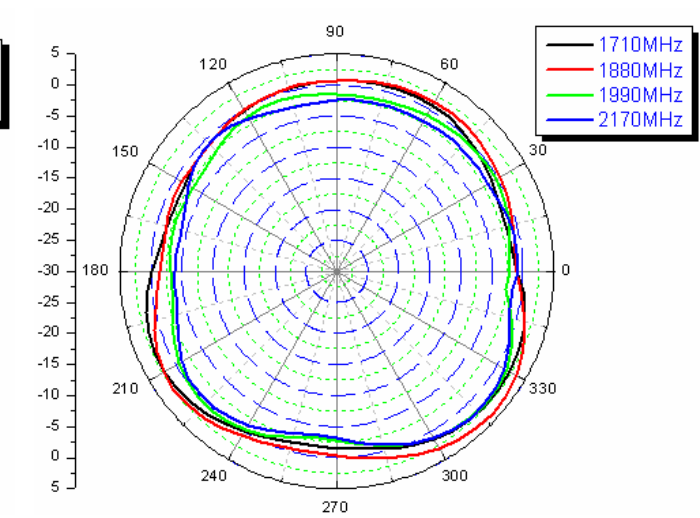
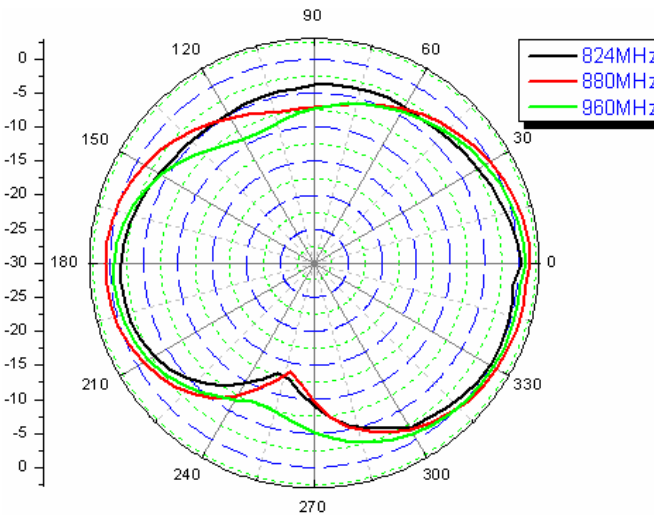
<b>Total power</b>	<b>Max (dBi)</b>	<b>Min (dBi)</b>	<b>Average (dBi)</b>
<b>824</b>	0.36	-12.93	-2.95
<b>880</b>	0.70	-13.56	-1.62
<b>960</b>	0.14	-9.19	-2.31
<b>1710</b>	0.22	-4.88	-2.28
<b>1880</b>	0.99	-4.78	-2.88
<b>1990</b>	0.06	-5.43	-3.98
<b>2170</b>	0.02	-5.21	-3.35

**(2) Total power for E1-plane**

Gain Patterns



H-Plane



E1-Plane



Mechanical Outline/Specification

