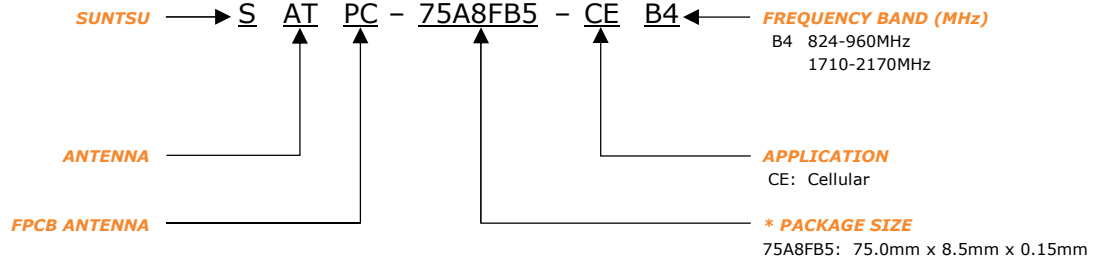


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - 3G/GSM - FPCB Type - Stable And Reliable Performance - 824-960MHz & 1710-2170MHz - Compact Size With Efficient Reception 	<ul style="list-style-type: none"> - GSM/3G Position Routers & Tracking Systems - Automotive Sensors - Smart Outdoor Devices - Machine To Machine Wireless Communication - Mobile Systems



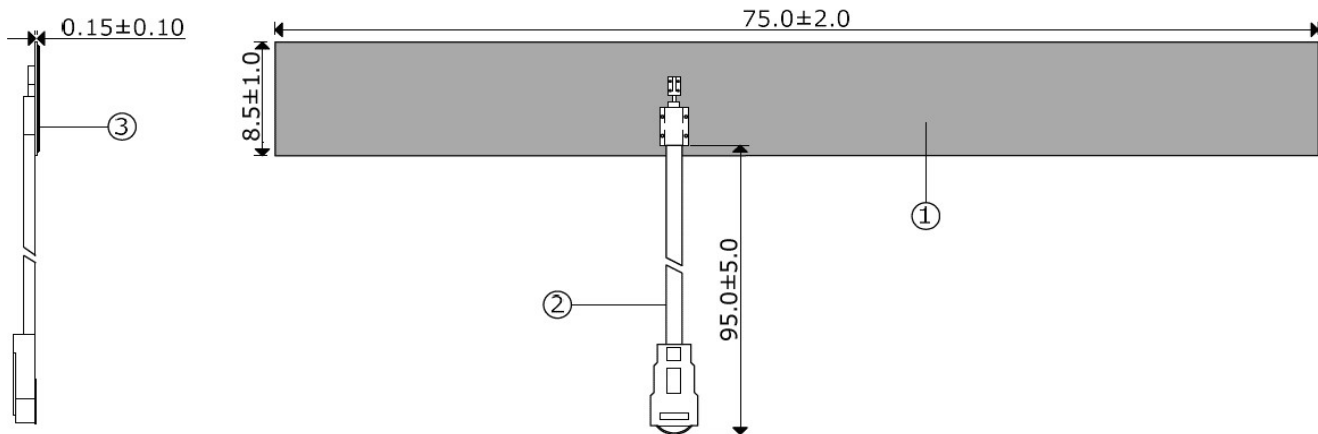
PART NUMBERING GUIDE



* Where letters denote decimal location A=.0, B=.1, C=.2, etc. Ex: B5=0.15, 3A5=3.05, 9A=9.0
To customize your parameters, contact a Suntsu representative.

ELECTRICAL PARAMETERS (At 25°C)	UNITS	MIN.	TYP.	MAX	REMARKS
Frequency Band	MHz	824		960	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		0.8		At 890MHz
Efficiency	%		46		At 890MHz
VSWR				3	At Center Frequency
Operating Temperature	°C	-40		85	
Frequency Band	MHz	1710		2170	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		2.7		At 1950MHz
Efficiency	%		64		At 1950MHz
VSWR				3	At Center Frequency
Operating Temperature	°C	-40		85	

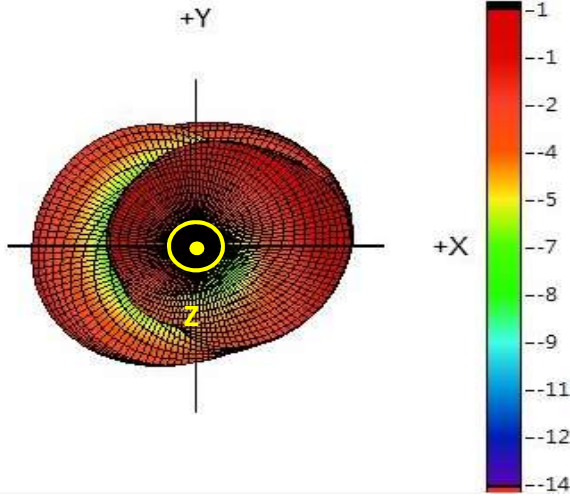
OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



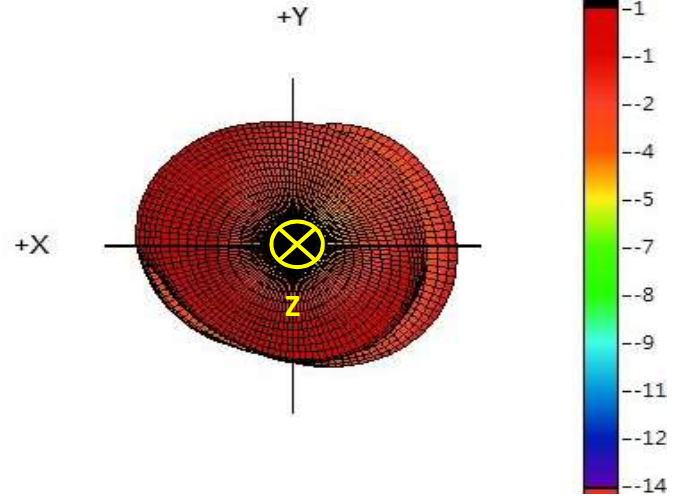
Item	Material
1	FR4 FPCB
2	IPEX Connector and Cable with OD of 1.13
3	Adhesive Tape

3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

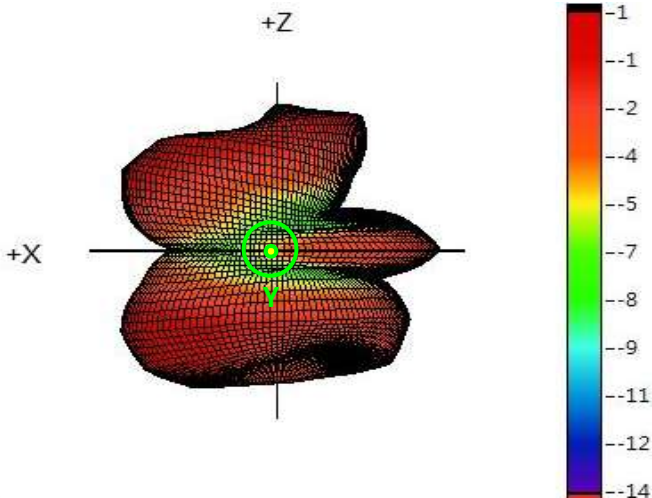
890MHz



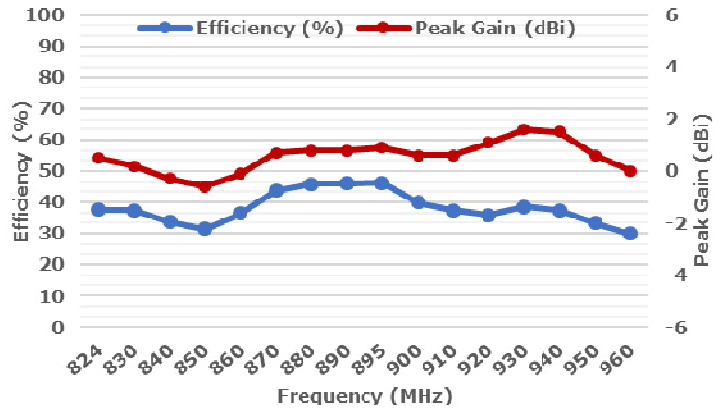
890MHz



890MHz

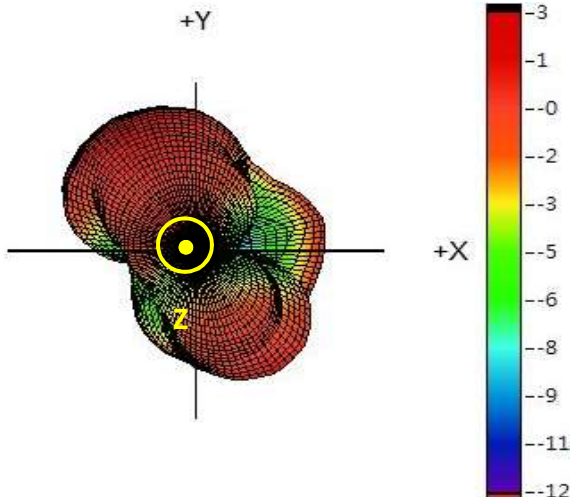


890MHz

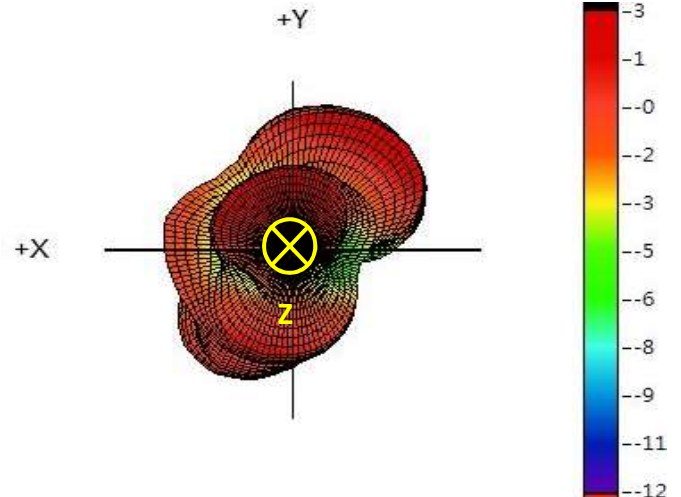


Freq.	824	830	840	850	860	870	880	890	895	900	910	920	930	940	950	960
Eff. (%)	37.7	37.4	33.8	31.4	36.4	43.8	45.90	46.00	46.2	39.9	37.5	35.8	38.5	37.5	33.3	29.9
P.G.	0.5	0.2	-0.3	-0.6	-0.1	0.7	0.8	0.8	0.9	0.6	0.6	1.1	1.6	1.5	0.6	0

1950MHz

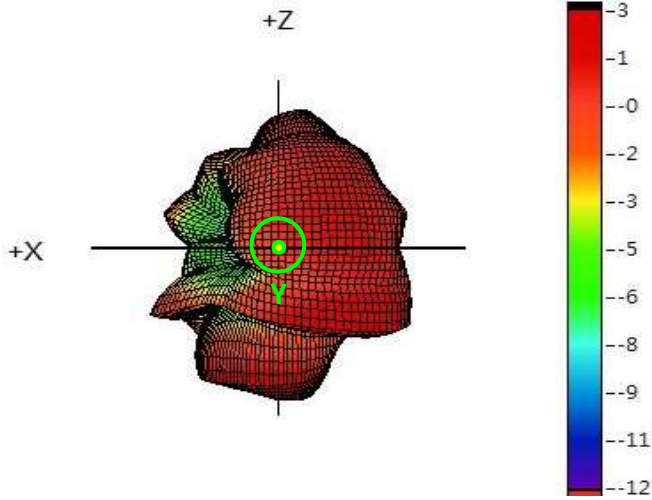


1950MHz

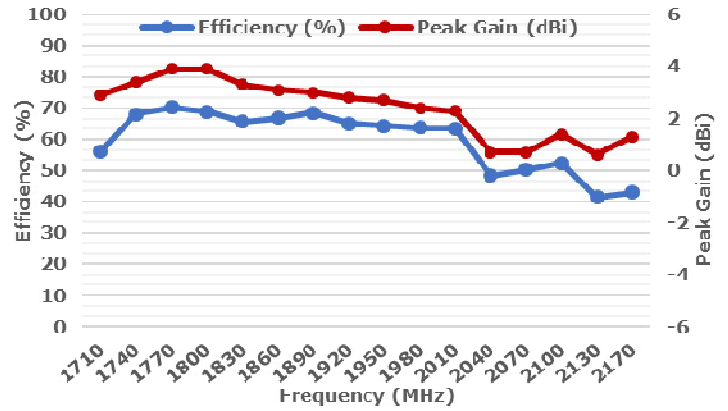


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

1950MHz



1950MHz

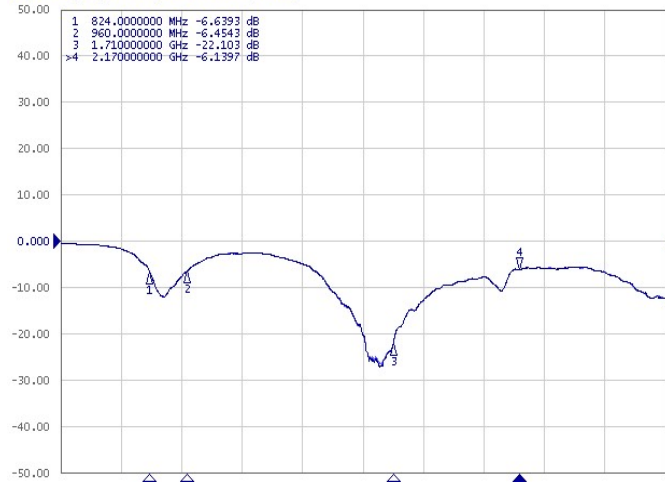


Freq.	1710	1740	1770	1800	1830	1860	1890	1920	1950	1980	2010	2040	2070	2100	2130	2170
Eff. (%)	56.2	68.1	70.2	68.9	65.6	66.7	68.60	65.00	64.3	63.7	63.5	48.3	50.2	52.4	41.5	42.9
P.G.	2.9	3.4	3.9	3.9	3.3	3.1	3	2.8	2.7	2.4	2.3	0.7	0.7	1.4	0.6	1.3

ELECTRICAL TEST

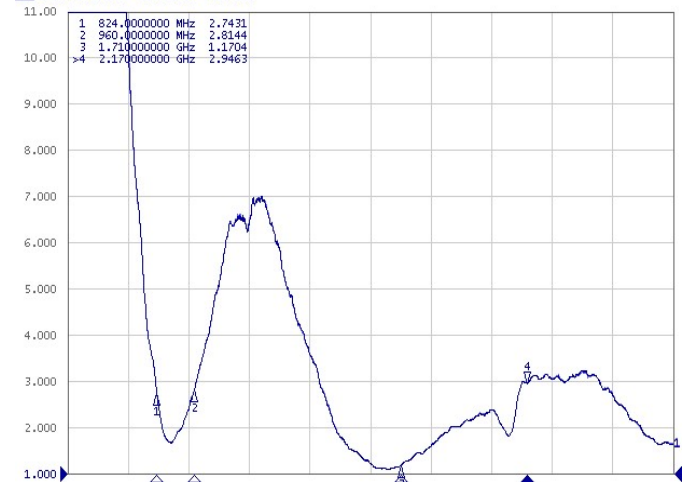
RETURN LOSS

S11 Log Mag 10.00dB/ Ref 0.000dB [F2 D&M]



VSWR

S11 SWR 1.000/ Ref 1.000 [F2 D&M]



ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

High Temperature Test	85°C for 500 hours, and then to normal temperature/humidity for 24hours.
Low Temperature Test	-30°C for 500 hours, and then to normal temperature/humidity for 24hours.
Humidity Test	85°C / 90-95% for 96 hours, and then to normal temperature/humidity for 24hours.
Thermal Shock Test	-30°C for 30 min and +85°C for 30 min. 5 cycles, then expose to normal temperature/humidity for 24 hours or more.
Vibration Test	5 to 200 to 5Hz, swept in 10min, 4.5G at max(2mm amplitude), in X and Y directions for 2 hours each and in Z direction for 4 hours.