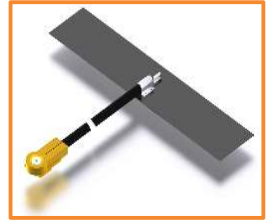
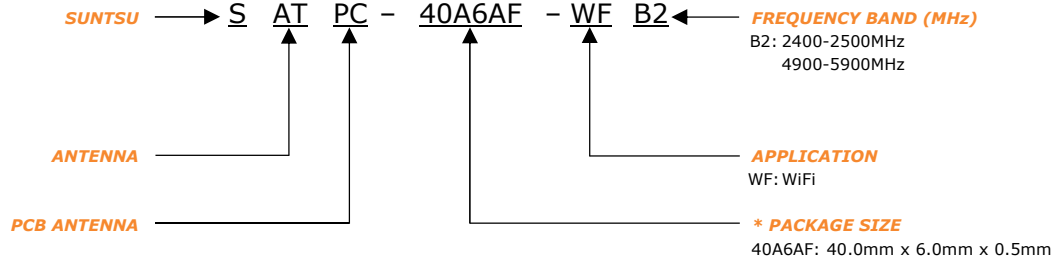


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - WiFi Dual Band - PCB Type - Stable And Reliable Performance - 2400-2500MHz & 4900-5900MHz - Compact Size With Efficient Reception 	<ul style="list-style-type: none"> - IEEE802.11 (a/b/g/n) - Hand-held Devices - Portable Devices - Network Devices - Machine To Machine Wireless



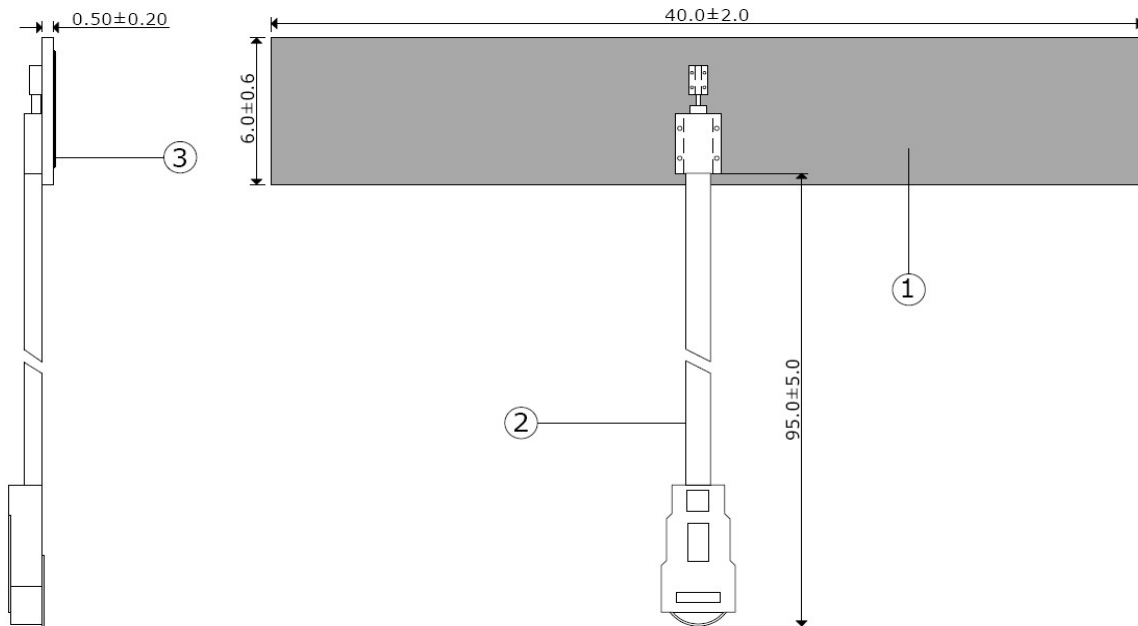
PART NUMBERING GUIDE



* 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	2400		2500	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		2.6		At 2442MHz
Efficiency	%		80		At 2442MHz
VSWR				2	At Center Frequency
Operating Temperature	°C	-40		85	
Frequency Band	MHz	4900		5900	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		3.3		At 5150MHz
Efficiency	%		77		At 5150MHz
VSWR				2	At Center Frequency
Operating Temperature	°C	-40		85	

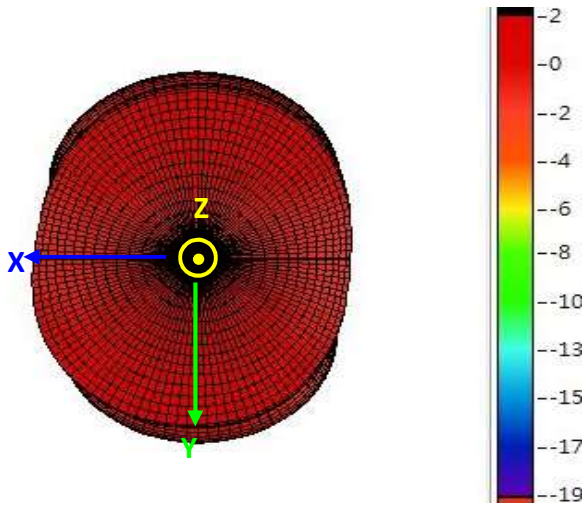
OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



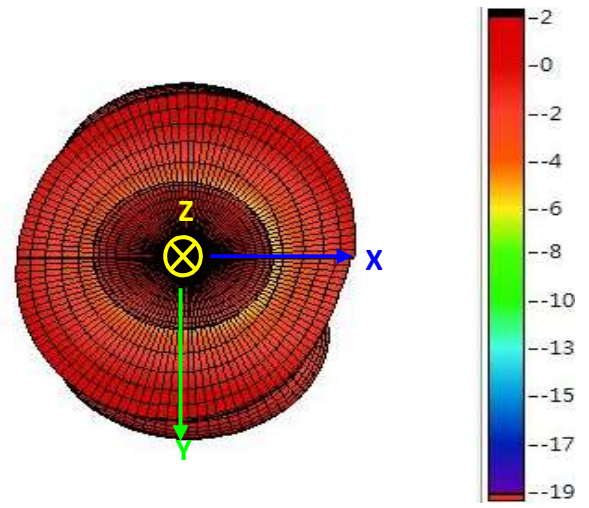
Item	Material
1	FR4 PCB
2	IPEX Connector and Cable with OD of 1.13
3	Adhesive Tape

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

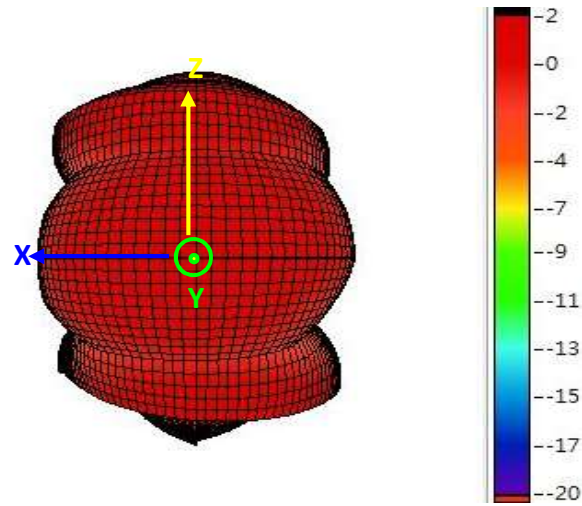
2442MHz



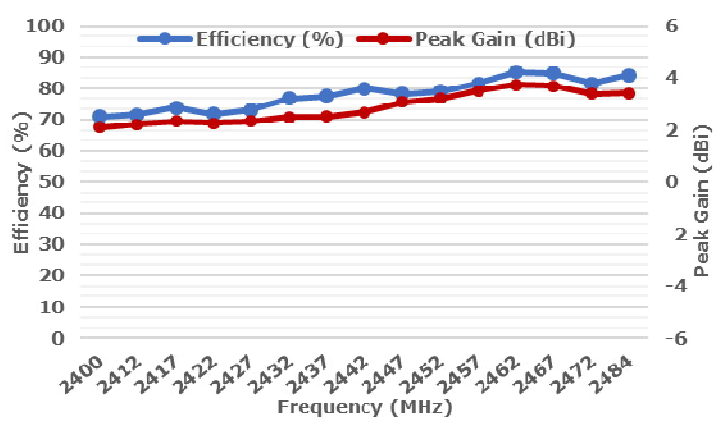
2442MHz



2442MHz

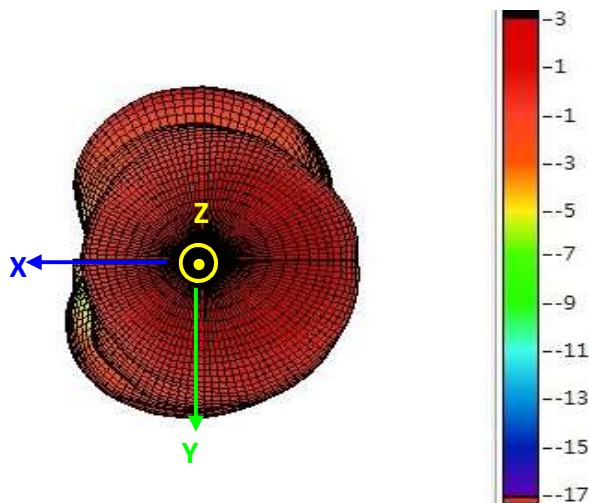


2442MHz

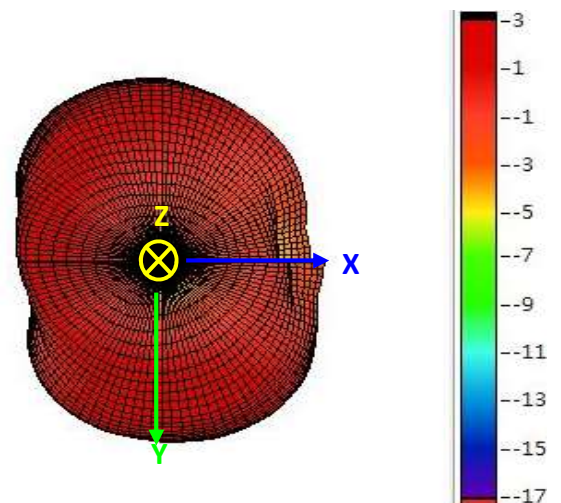


Freq.	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484
Eff. (%)	71	71.6	73.8	71.8	73.1	76.7	77.45	79.98	78.3	79.1	81.5	85.3	84.8	81.5	84.2
P.G.	2.11	2.21	2.34	2.26	2.33	2.49	2.52	2.68	3.07	3.21	3.5	3.73	3.69	3.39	3.42

5150MHz

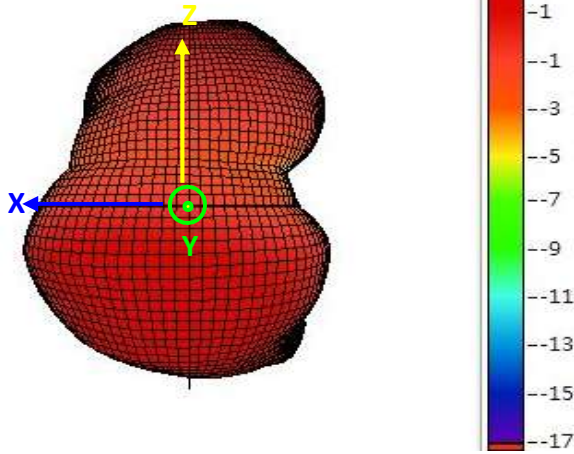


5150MHz

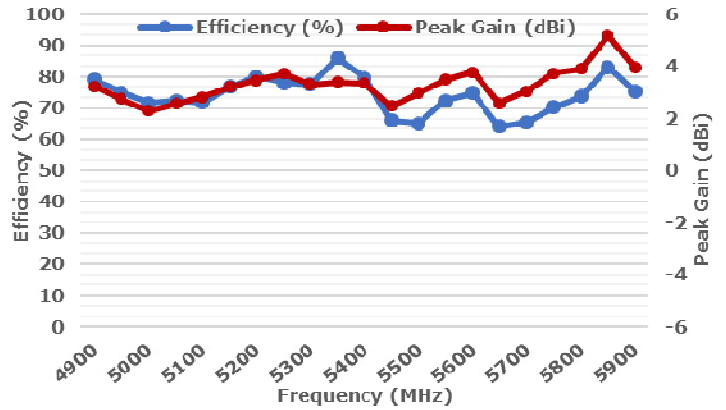


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

5150MHz

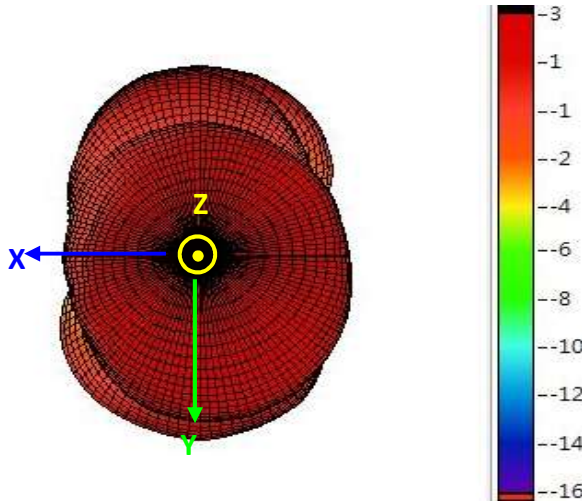


5150MHz

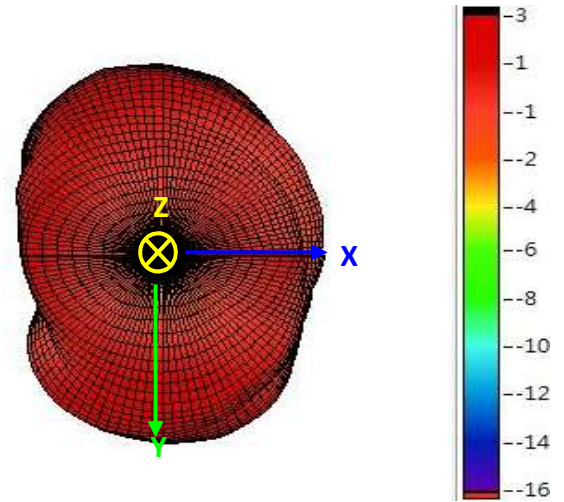


Freq.	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900
Eff. (%)	79.1	75	71.6	72.3	71.8	76.7	79.98	78.10	77.5	86	79.6	65.9	65	72.3	74.8	64.1	65.4	70.3	73.6	83.1	75.3
P.G.	3.23	2.74	2.3	2.56	2.83	3.2	3.46	3.72	3.3	3.39	3.36	2.47	2.97	3.49	3.79	2.6	3.06	3.74	3.91	5.18	3.98

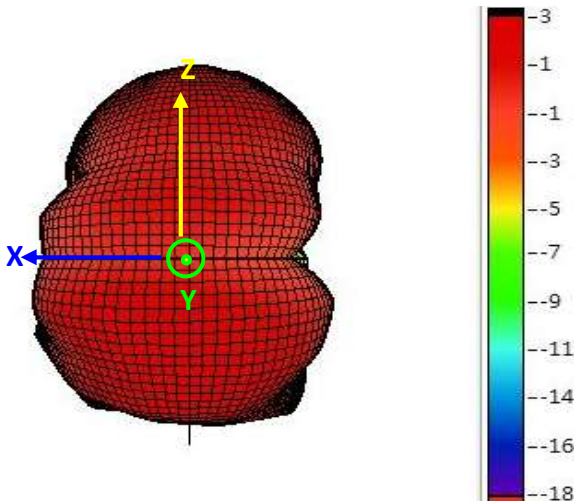
5350MHz



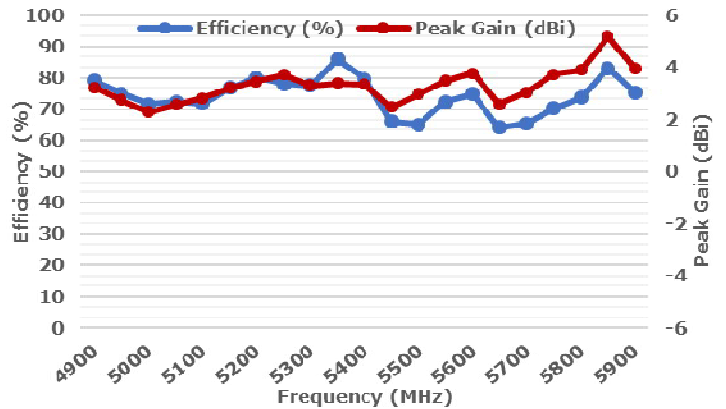
5350MHz



5350MHz



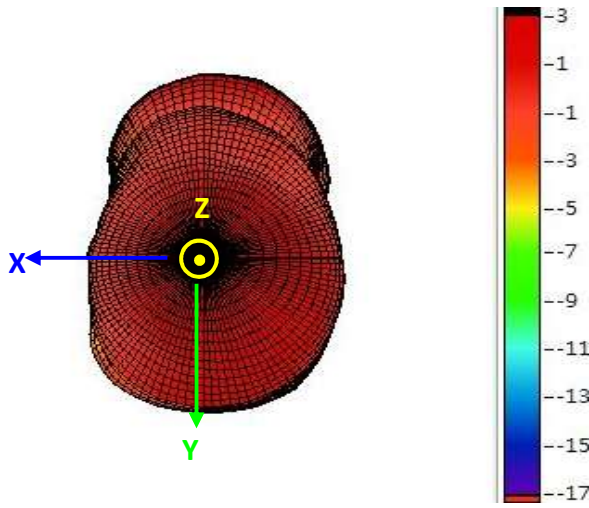
5350MHz



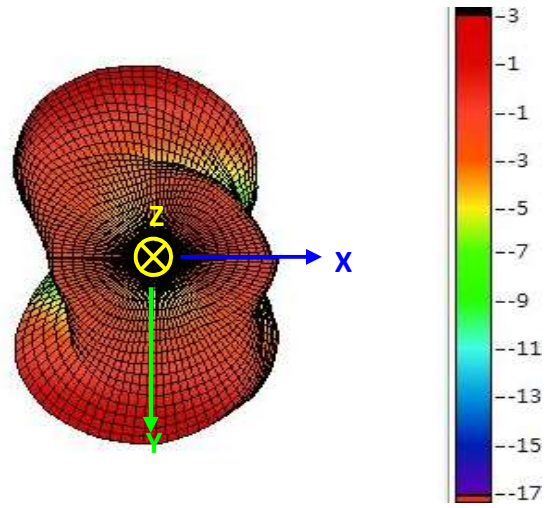
Freq.	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900
Eff. (%)	79.1	75	71.6	72.3	71.8	76.7	79.98	78.10	77.5	86	79.6	65.9	65	72.3	74.8	64.1	65.4	70.3	73.6	83.1	75.3
P.G.	3.23	2.74	2.3	2.56	2.83	3.2	3.46	3.72	3.3	3.39	3.36	2.47	2.97	3.49	3.79	2.6	3.06	3.74	3.91	5.18	3.98

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

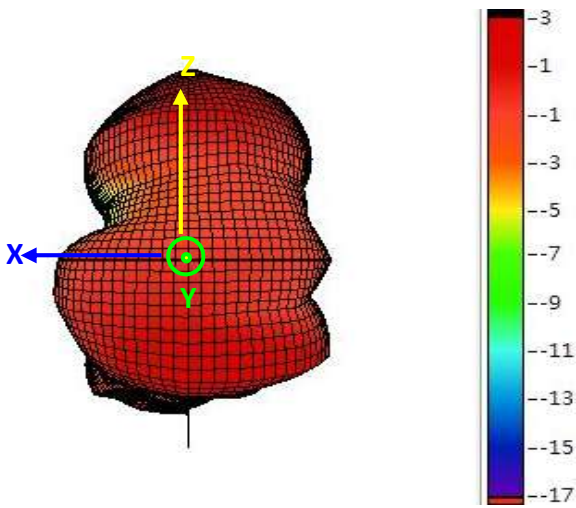
5700MHz



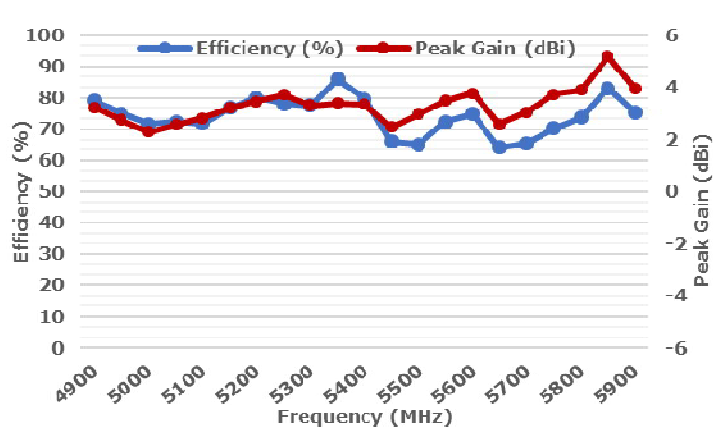
5700MHz



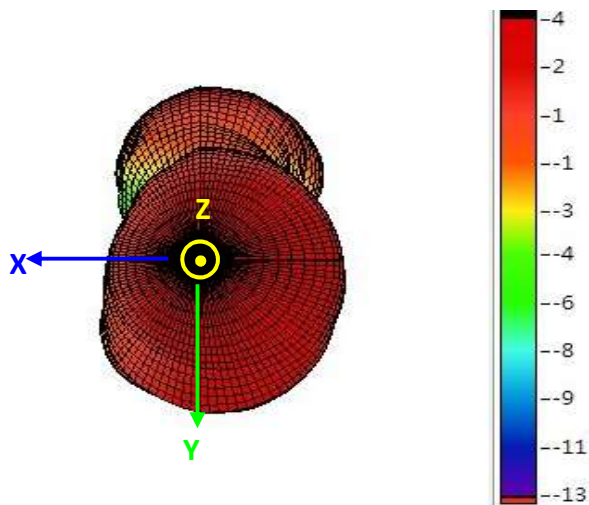
5700MHz



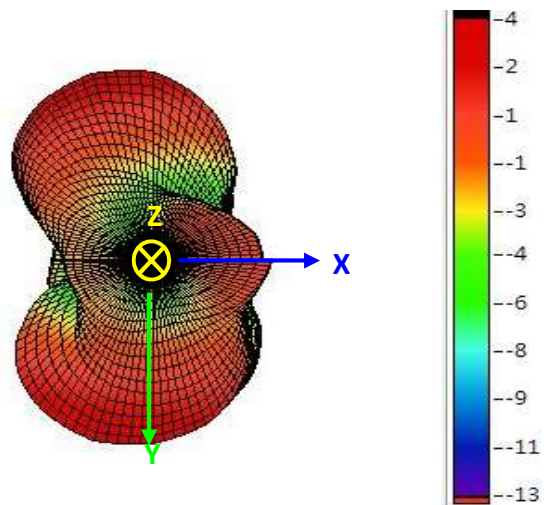
5700MHz



5850MHz

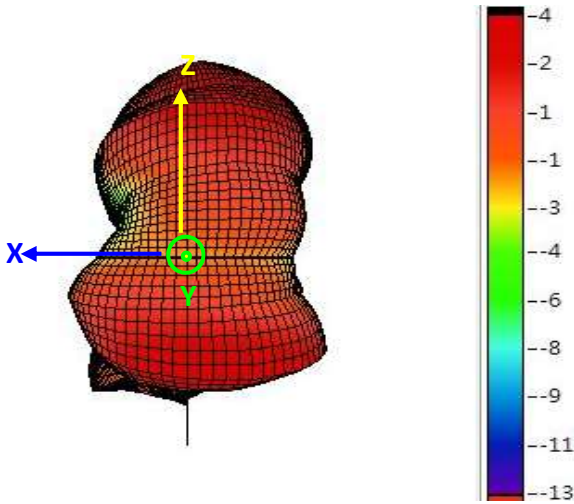


5850MHz

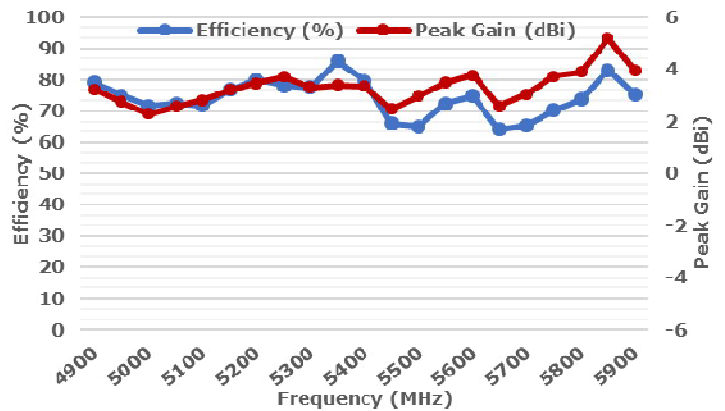


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

5850MHz



5850MHz

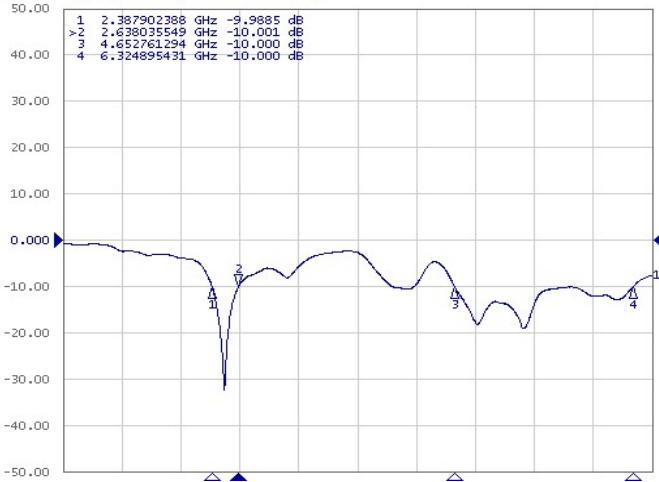


Freq.	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900
Eff. (%)	79.1	75	71.6	72.3	71.8	76.7	79.98	78.10	77.5	86	79.6	65.9	65	72.3	74.8	64.1	65.4	70.3	73.6	83.1	75.3
P.G.	3.23	2.74	2.3	2.56	2.83	3.2	3.46	3.72	3.3	3.39	3.36	2.47	2.97	3.49	3.79	2.6	3.06	3.74	3.91	5.18	3.98

ELECTRICAL TEST

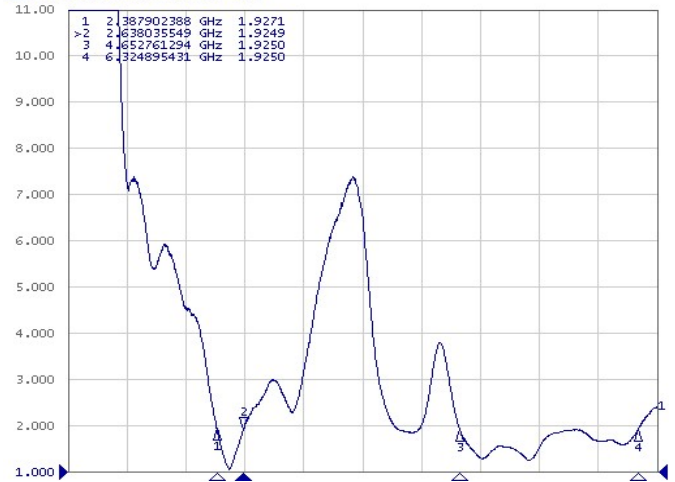
RETURN LOSS

[F1] S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



VSWR

[F1] S11 SWR 1.000/ Ref 1.000 [F1]



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.