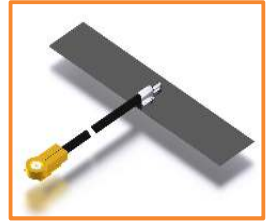
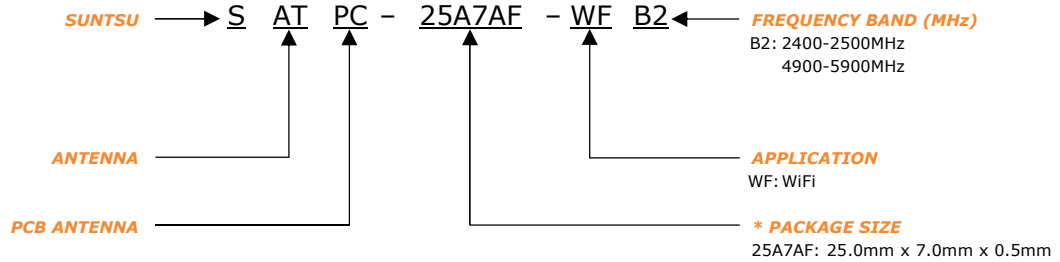


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - WiFi Dual Band - PCB Type - Stable And Reliable Performance - 2400-2500MHz & 4900-5900MHz - Compact Size With Efficient Reception 	<ul style="list-style-type: none"> - IEEE802.11 (a/b/g/n/ac) - Hand-held Devices - Portable Devices - Network Devices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



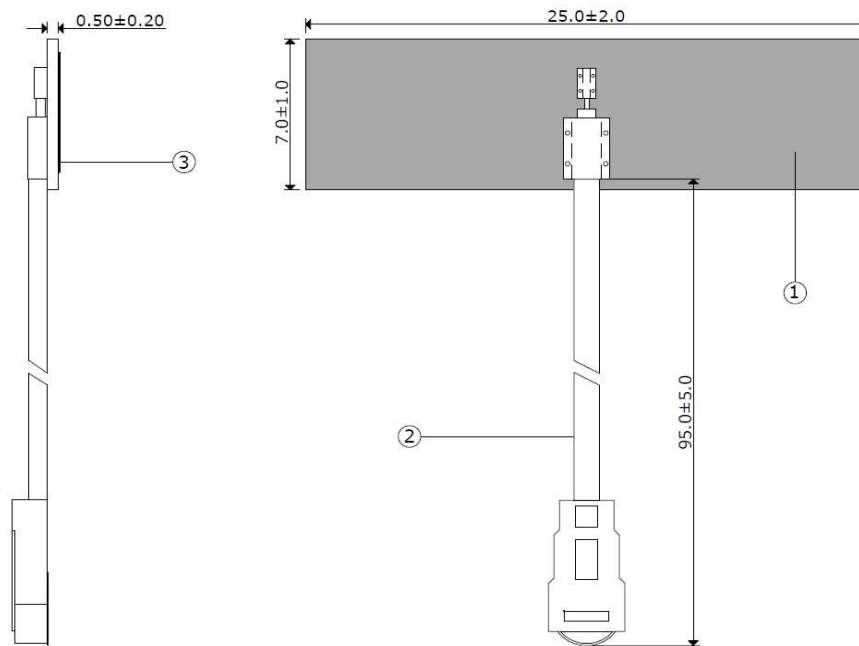
PART NUMBERING GUIDE



* 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.

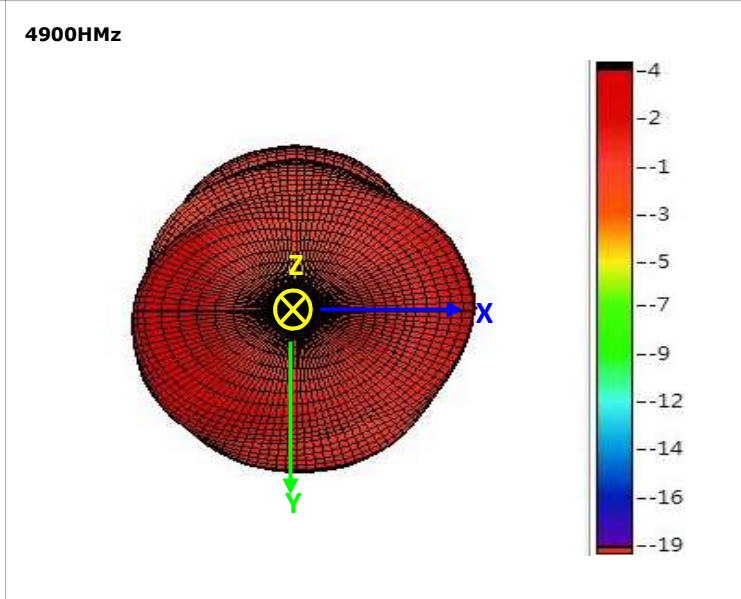
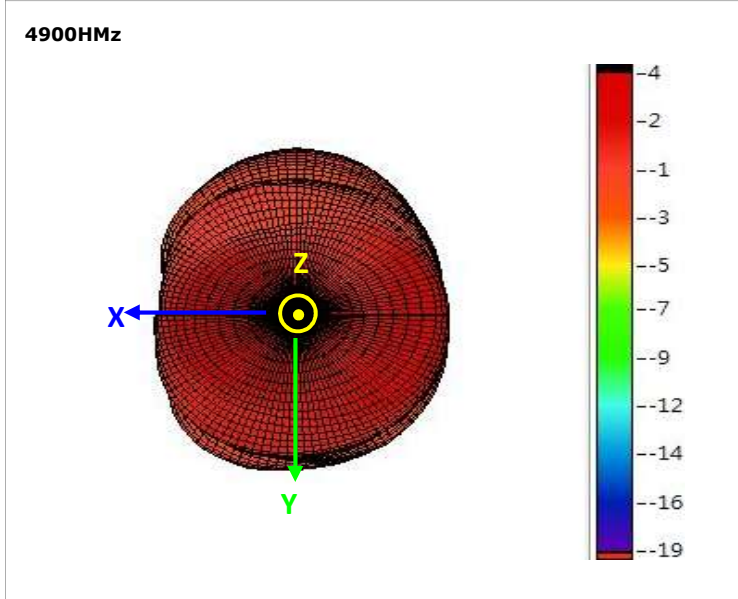
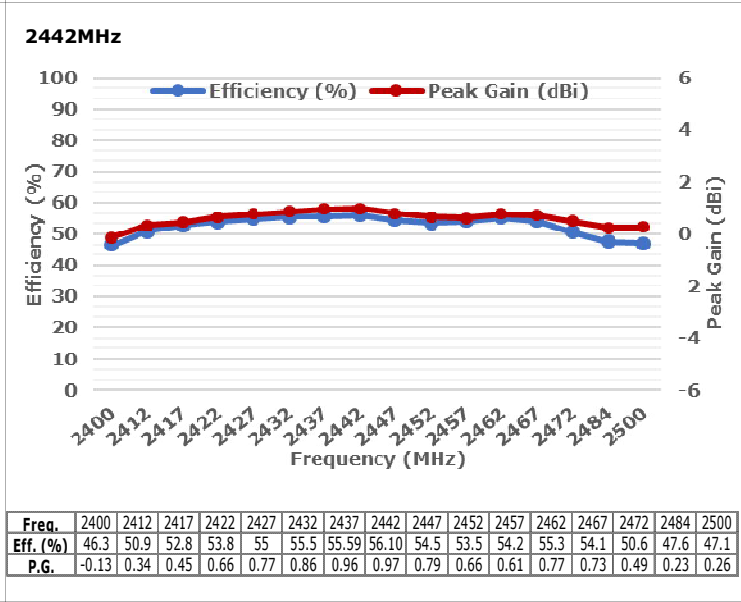
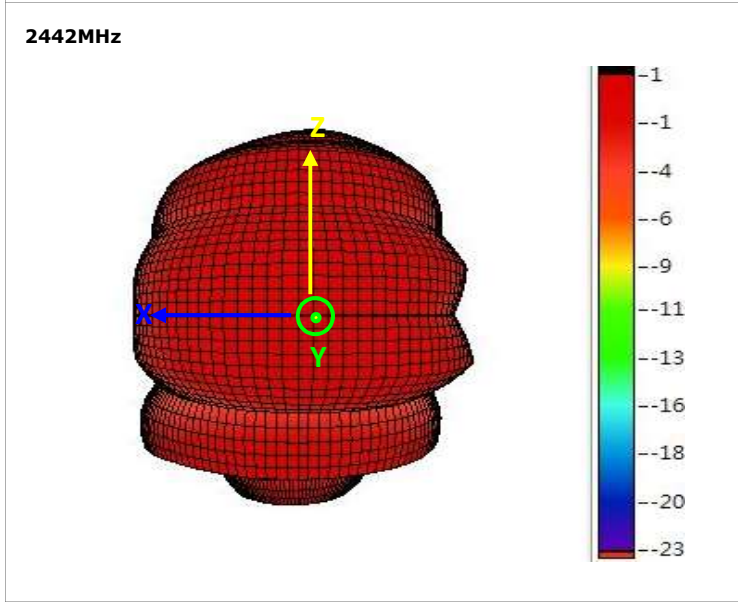
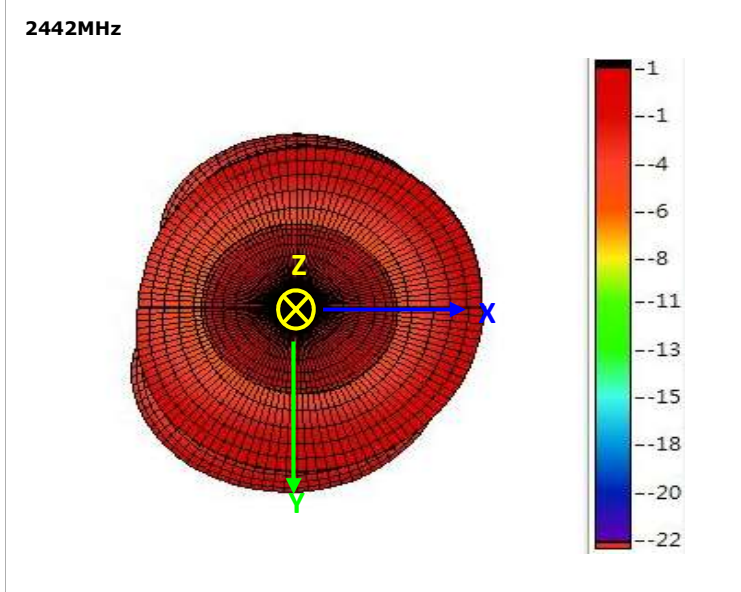
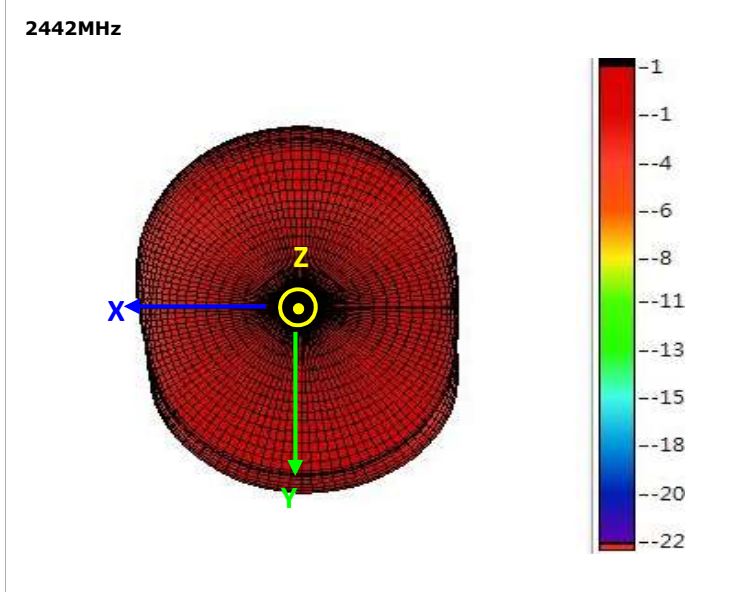
ELECTRICAL PARAMETERS (At 25°C)	UNITS	MIN.	TYP.	MAX	REMARKS
Frequency Band	MHz	2400		2500	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		0.9		At 2442MHz
Efficiency	%		56		At 2442MHz
VSWR				2	At Center Frequency
Operating Temperature	°C	-40		85	
Frequency Band	MHz	4900		5900	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		3.8		At 5150MHz
Efficiency	%		89		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.)



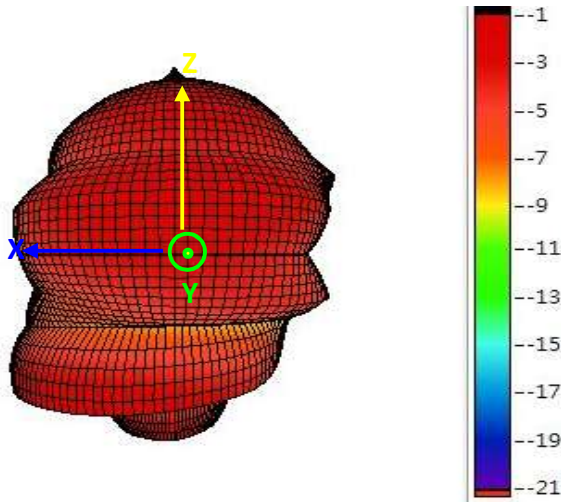
Item	Material
1	FR4 PCB
2	IPEX Connector and Cable with OD of 1.13
3	Adhesive Tape

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

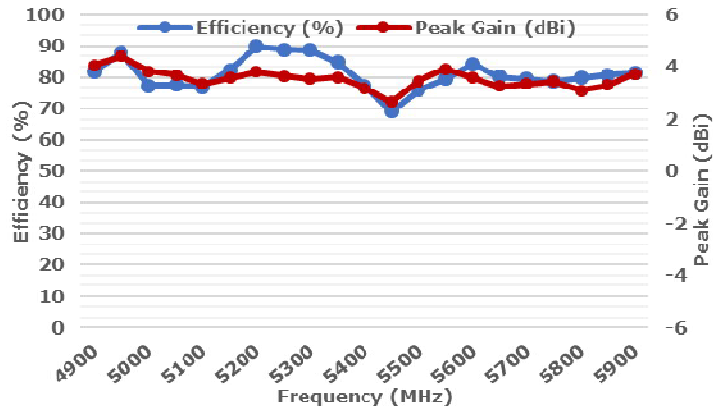


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

4900MHz

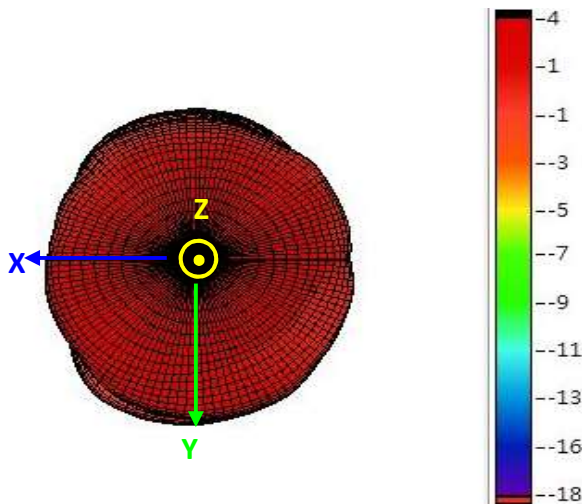


4900MHz

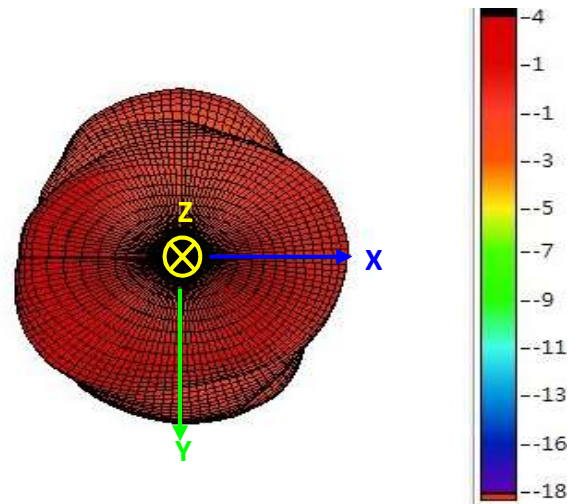


Freq.	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900
Eff. (%)	81.9	87.9	77.3	77.5	76.9	82.4	89.74	88.92	88.7	84.8	77.3	69	76	79.4	84.3	80.2	79.4	78.7	79.8	80.8	81.3
P.G.	4.07	4.41	3.84	3.69	3.36	3.58	3.81	3.65	3.53	3.6	3.19	2.66	3.46	3.92	3.58	3.26	3.36	3.43	3.09	3.3	3.75

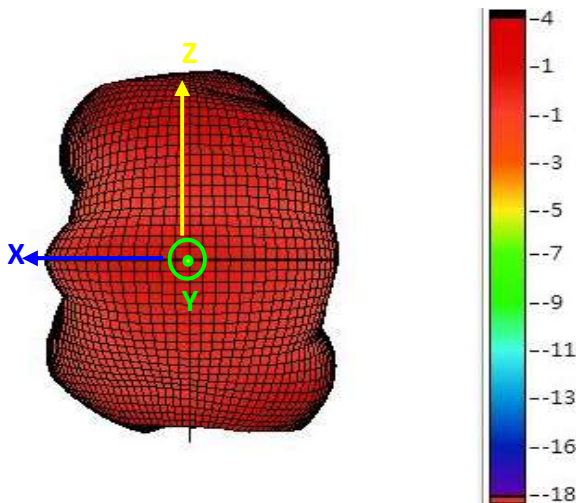
5150MHz



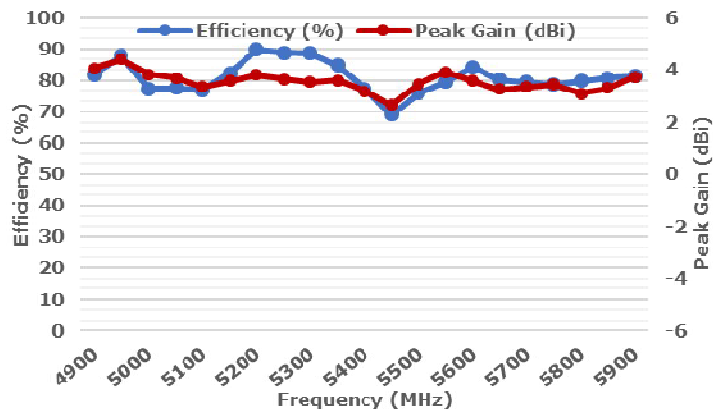
5150MHz



5150MHz



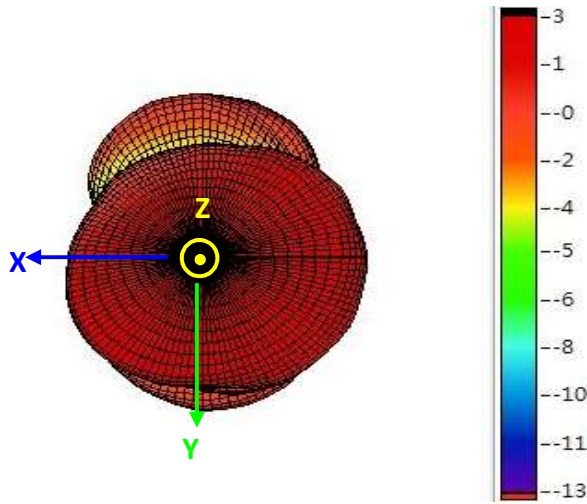
5150MHz



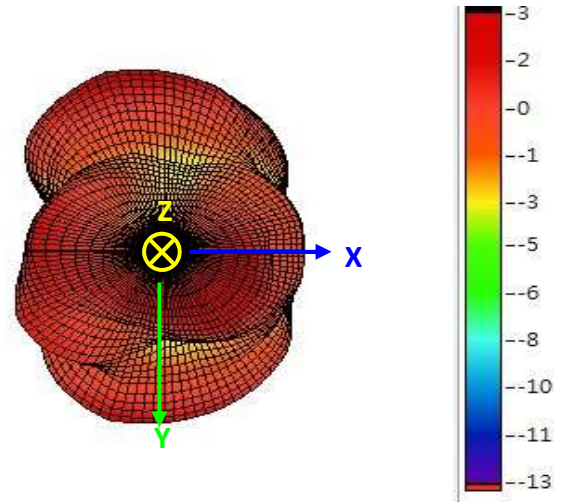
Freq.	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900
Eff. (%)	81.9	87.9	77.3	77.5	76.9	82.4	89.74	88.92	88.7	84.8	77.3	69	76	79.4	84.3	80.2	79.4	78.7	79.8	80.8	81.3
P.G.	4.07	4.41	3.84	3.69	3.36	3.58	3.81	3.65	3.53	3.6	3.19	2.66	3.46	3.92	3.58	3.26	3.36	3.43	3.09	3.3	3.75

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

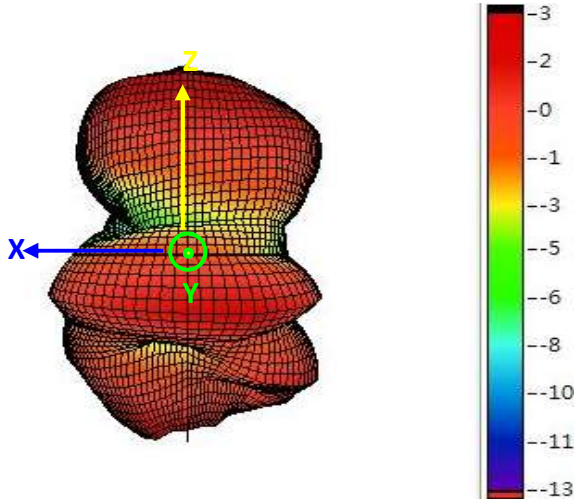
5500MHz



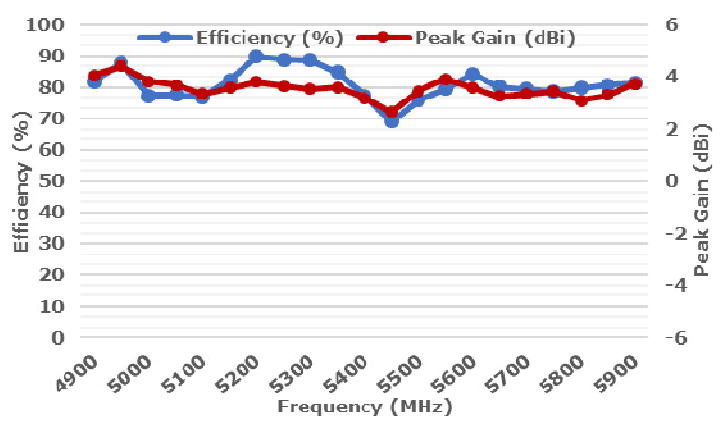
5500MHz



5500MHz

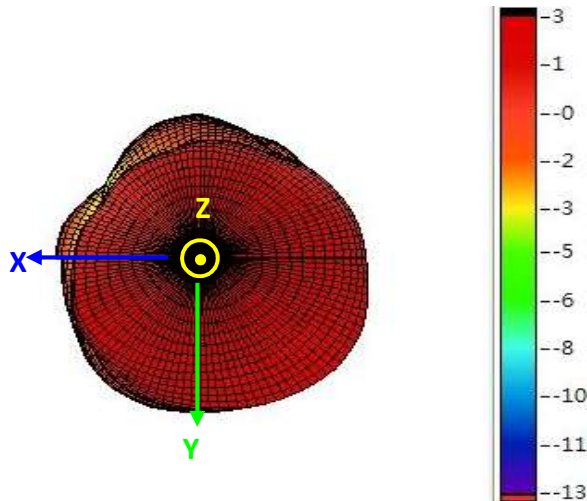


5500MHz

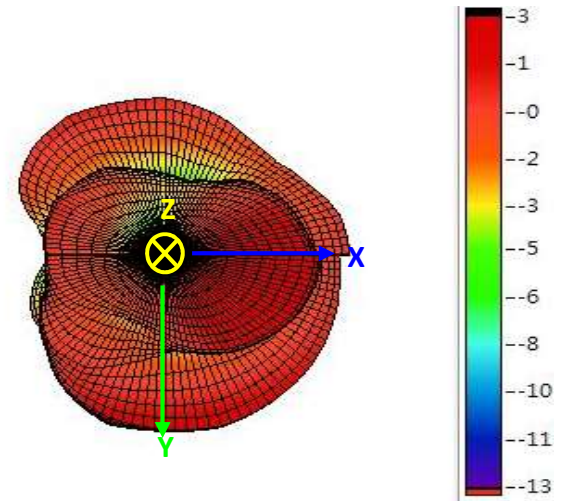


Freq.	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900
Eff. (%)	81.9	87.9	77.3	77.5	76.9	82.4	89.74	88.92	88.7	84.8	77.3	69	76	79.4	84.3	80.2	79.4	78.7	79.8	80.8	81.3
P.G.	4.07	4.41	3.84	3.69	3.36	3.58	3.81	3.65	3.53	3.6	3.19	2.66	3.46	3.92	3.58	3.26	3.36	3.43	3.09	3.3	3.75

5850MHz

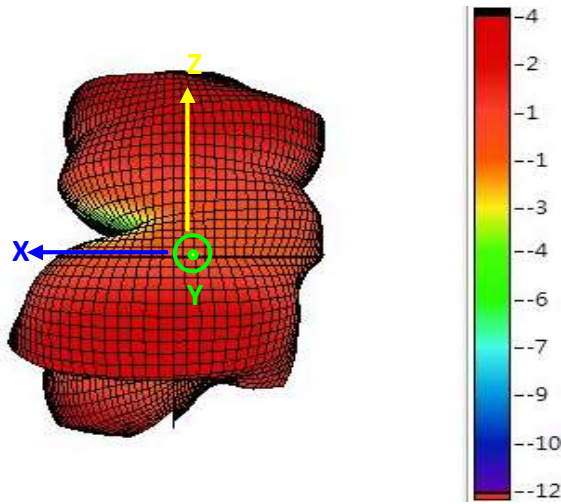


5850MHz

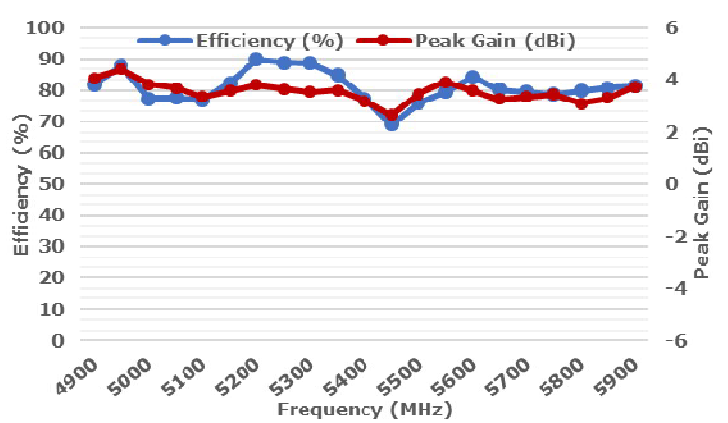


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

5850MHz



5850MHz

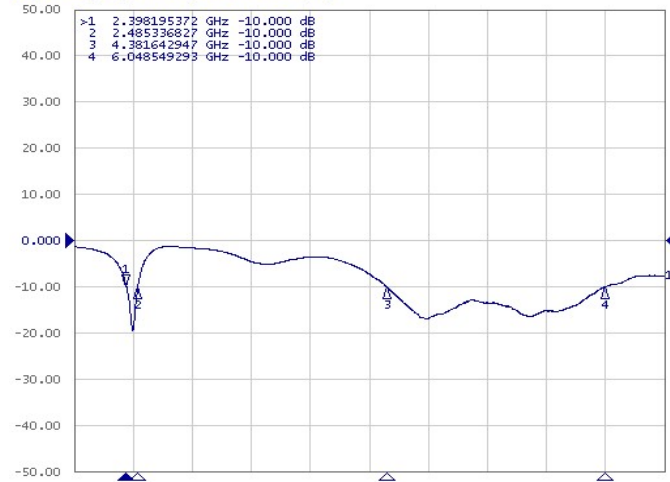


Freq.	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900
Eff. (%)	81.9	87.9	77.3	77.5	76.9	82.4	89.74	88.92	88.7	84.8	77.3	69	76	79.4	84.3	80.2	79.4	78.7	79.8	80.8	81.3
P.G.	4.07	4.41	3.84	3.69	3.36	3.58	3.81	3.65	3.53	3.6	3.19	2.66	3.46	3.92	3.58	3.26	3.36	3.43	3.09	3.3	3.75

ELECTRICAL TEST

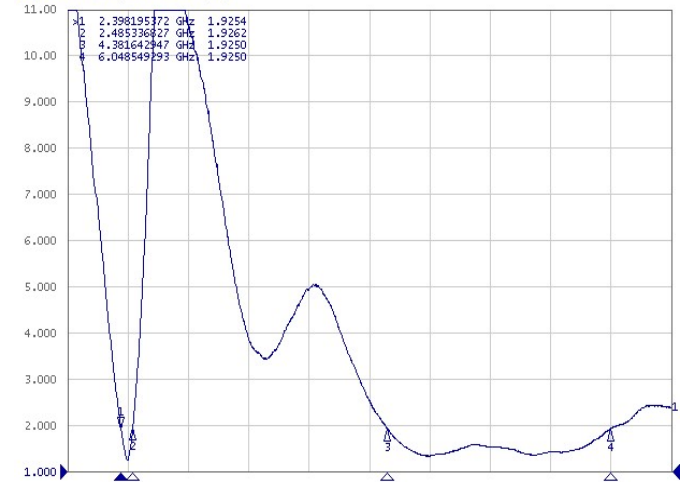
RETURN LOSS

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



VSWR

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.