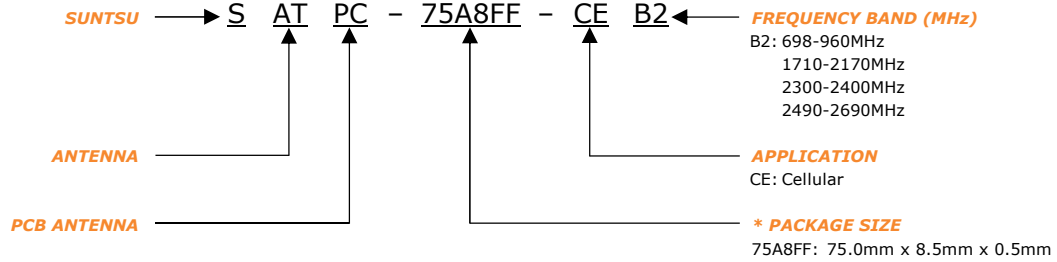


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - LTE Full Band/3G/GSM - PCB Type - Stable And Reliable Performance - 698-960, 1710-2170, 2300-2400 & 2490-2690MHz - Compact Size With Efficient Reception 	<ul style="list-style-type: none"> - LTE Modem - Automotive Sensors - Smart Outdoor Devices - Machine To Machine Wireless Communication - Mobile Systems



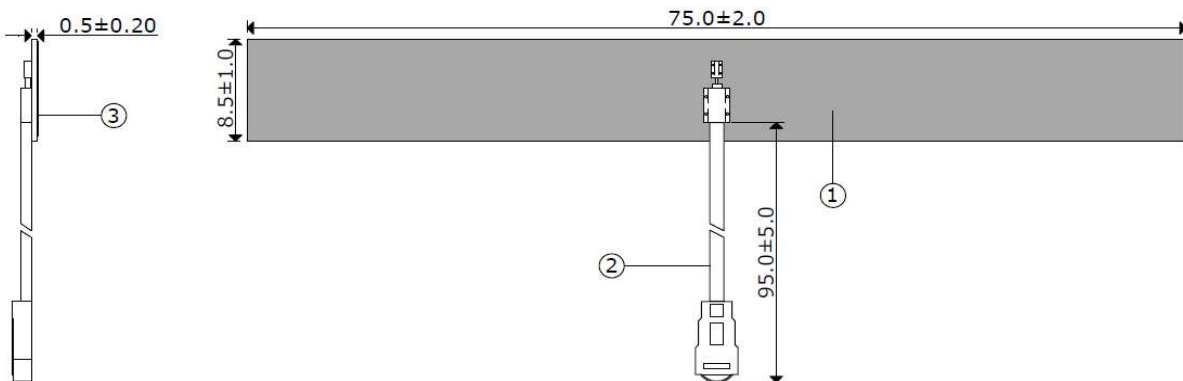
PART NUMBERING GUIDE



* 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	698		960	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		0.2		At 824MHz
Efficiency	%		38		At 824MHz
Operating Temperature	°C	-40		85	
Frequency Band	MHz	1710		2170	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		3.7		At 1950MHz
Efficiency	%		65		At 1950MHz
Operating Temperature	°C	-40		85	
Frequency Band	MHz	2300		2400	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		2.1		At 2350MHz
Efficiency	%		56		At 2350MHz
Operating Temperature	°C	-40		85	
Frequency Band	MHz	2490		2690	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		3.0		At 2590MHz
Efficiency	%		63		At 2590MHz
Operating Temperature	°C	-40		85	

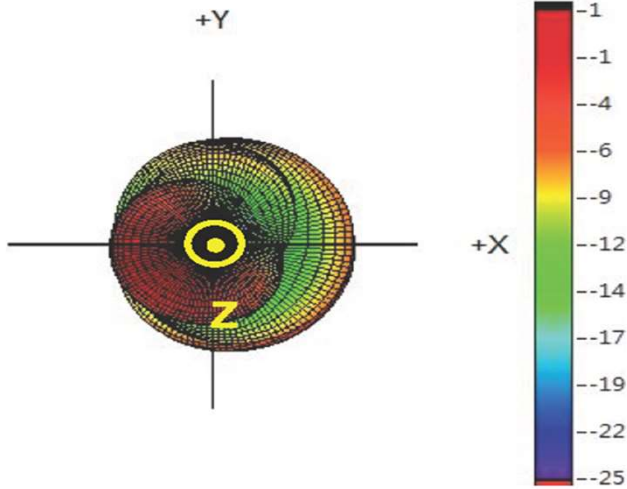
OUTLINE DRAWING (NOTE: All dimensions are in millimeters [mm], unless otherwise noted. Drawings are not to scale.)



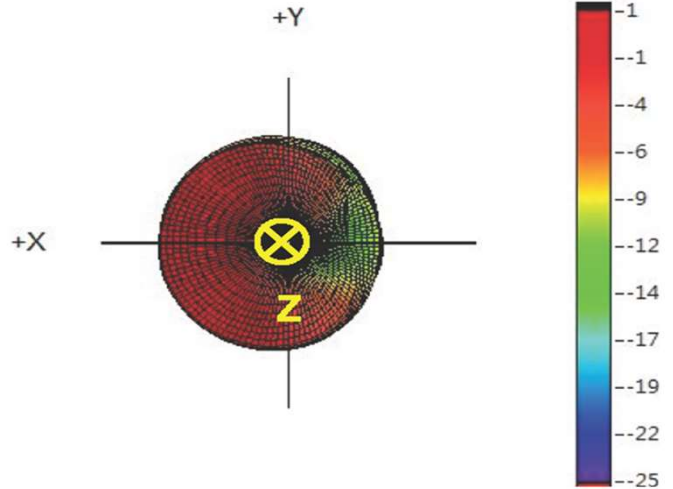
Item	Material
1	PCB Antenna
2	IPEX Connector and Cable with OD of 1.13
3	Adhesive Tape

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

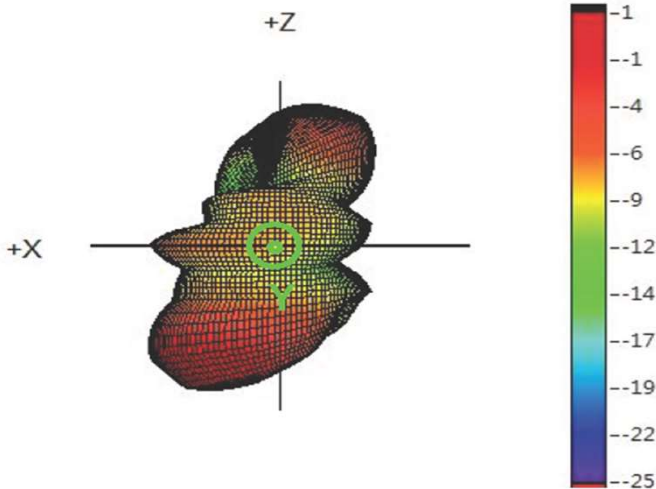
824MHz



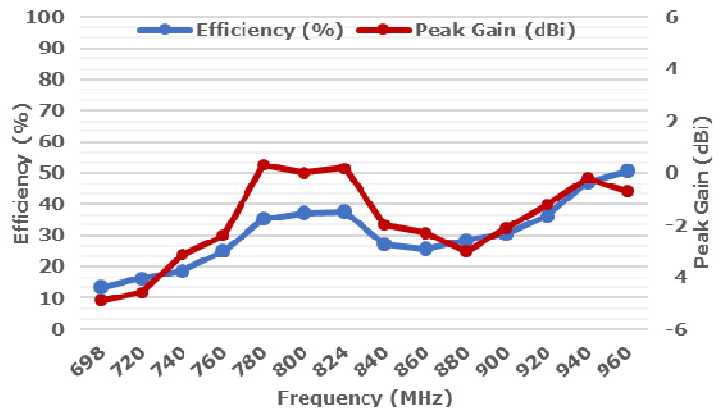
824MHz



824MHz

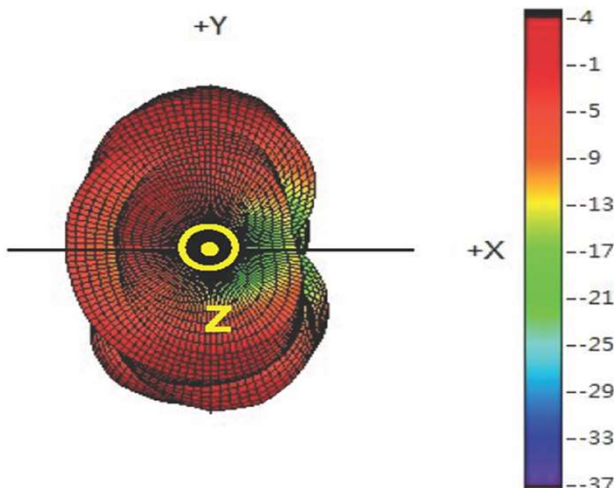


824MHz

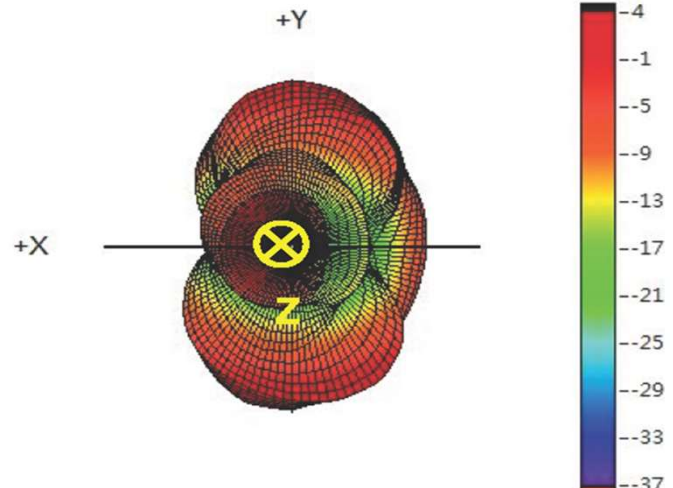


Freq.	698	720	740	760	780	800	824	840	860	880	900	920	940	960
Eff. (%)	13.5	16.3	18.6	24.9	35.3	37.3	37.7	27.2	25.7	28.6	30.5	36.2	47	50.6
P.G.	-4.9	-4.6	-3.15	-2.4	0.3	0	0.2	-2	-2.3	-3	-2.1	-1.2	0.2	0.7

1950MHz

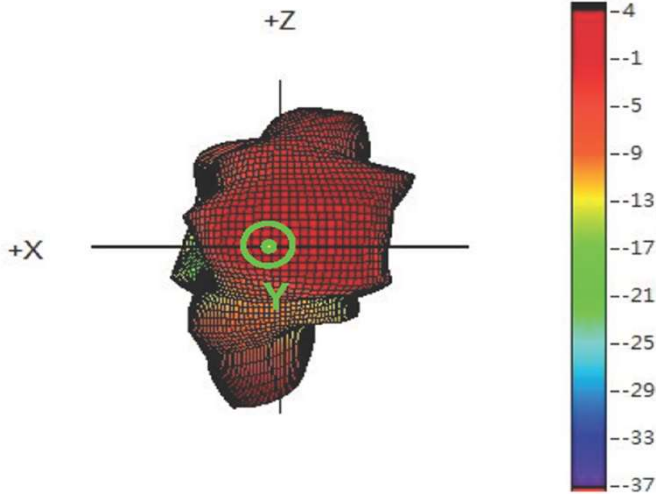


1950MHz

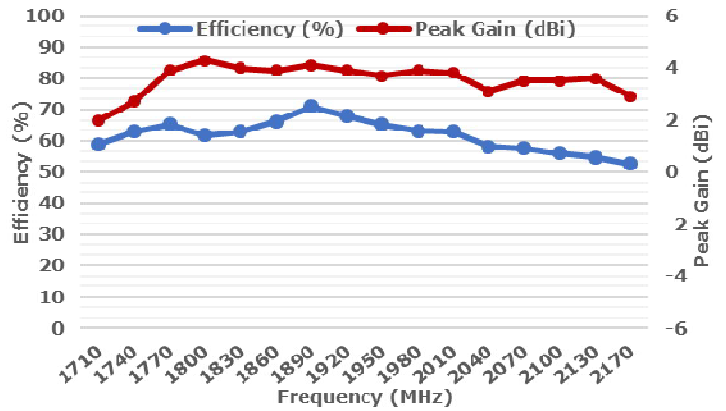


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

1950MHz

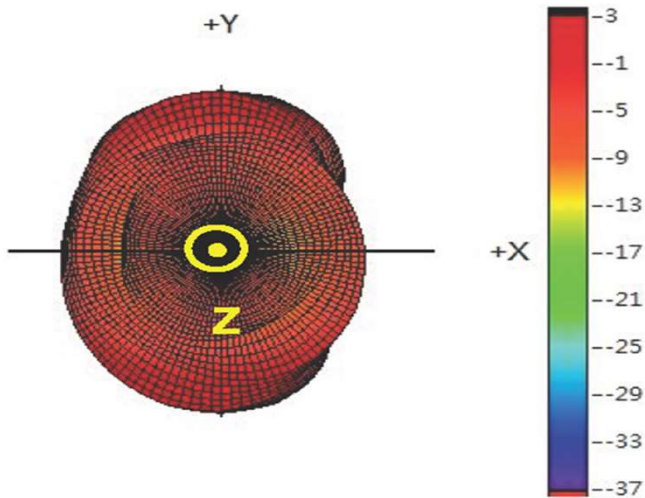


1950MHz

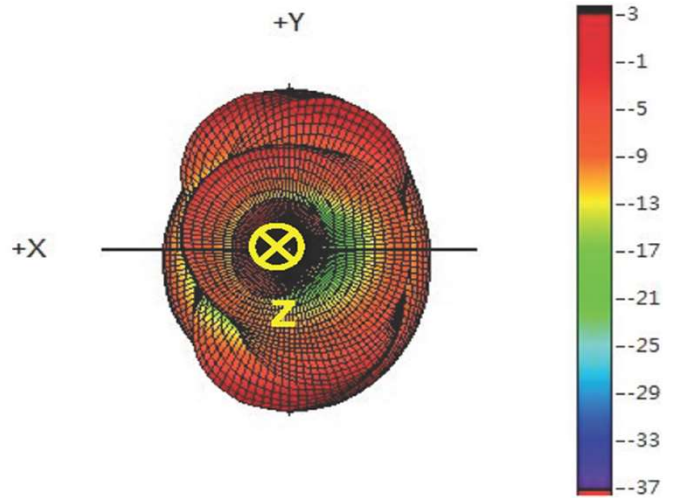


Freq.	1710	1740	1770	1800	1830	1860	1890	1920	1950	1980	2010	2040	2070	2100	2130	2170
Eff. (%)	59	63	65.3	61.7	63	66.2	71	67.9	65.2	63.2	63	58.1	57.5	56.1	54.7	52.5
P.G.	2	2.7	3.9	4.3	4	3.9	4.1	3.8	3.7	3.9	3.8	3.1	3.5	3.5	3.6	2.9

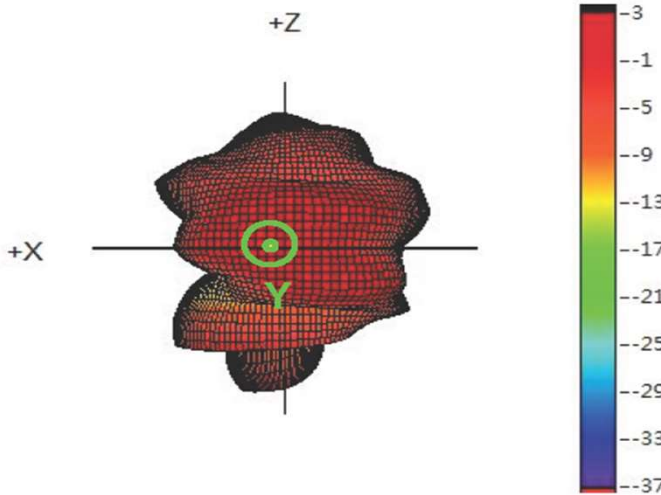
2350MHz



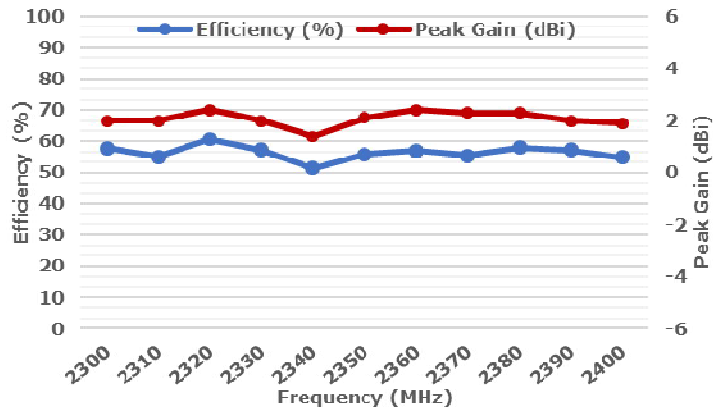
2350MHz



2350MHz



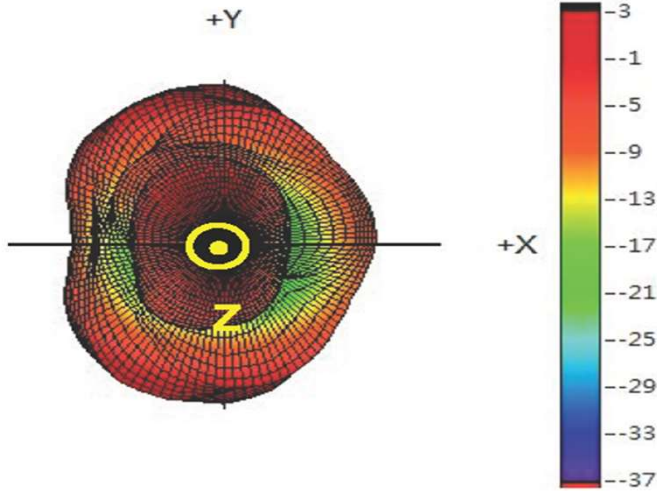
2350MHz



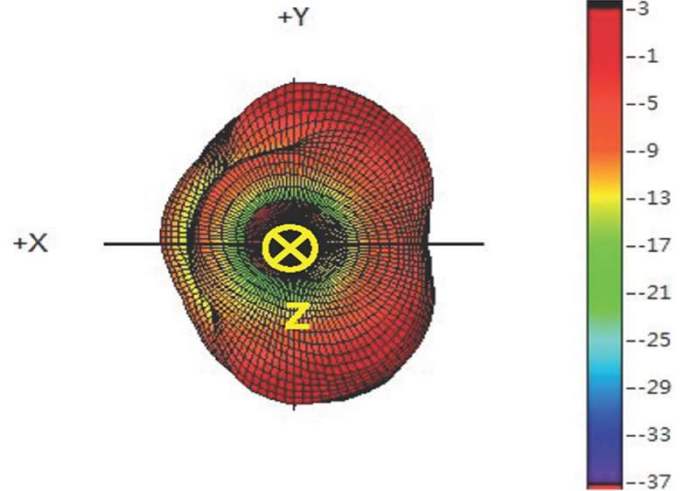
Freq.	2300	2310	2320	2330	2340	2350	2360	2370	2380	2390	2400
Eff. (%)	57.8	55	60.6	57.2	51.4	55.9	57	55.9	57.9	57.2	54.9
P.G.	2	2	2.4	2	1.4	2.1	2.4	2.3	2.3	2	1.9

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

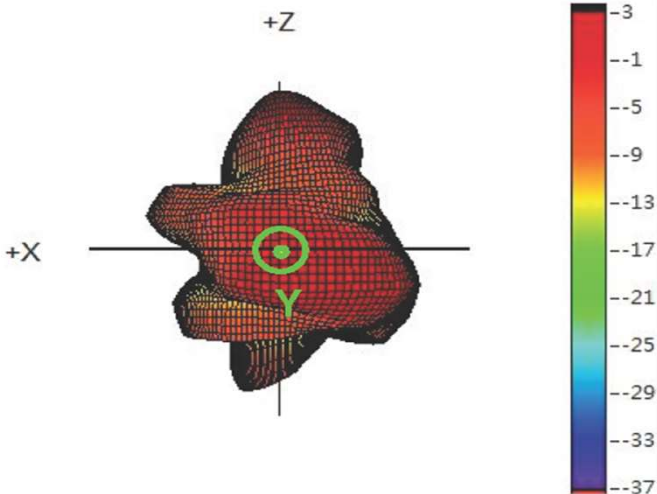
2590MHz



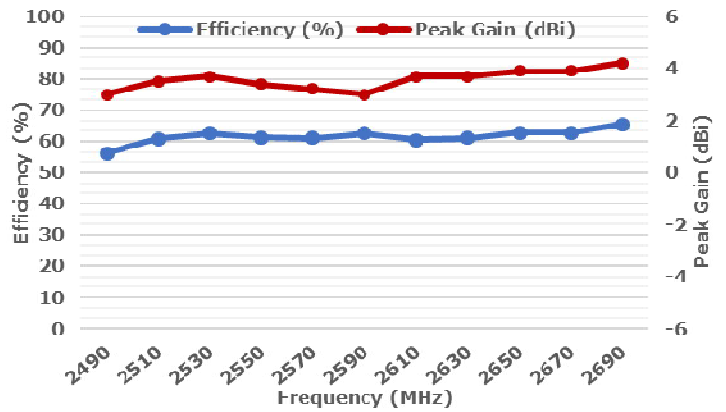
2590MHz



2590MHz



2590MHz

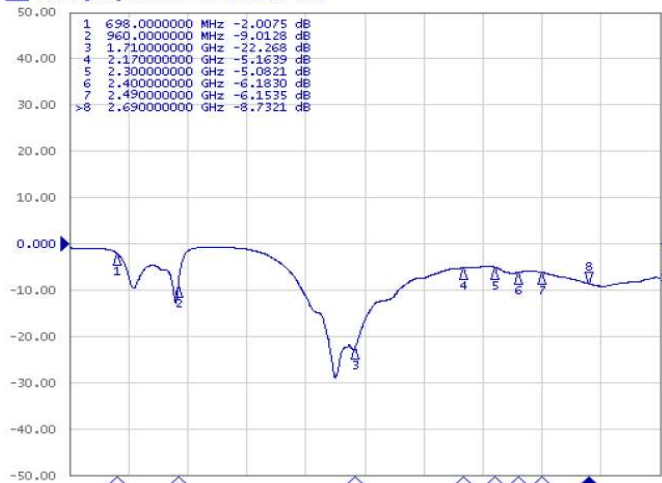


Freq.	2490	2510	2530	2550	2570	2590	2610	2630	2650	2670	2690
Eff. (%)	56.2	60.8	62.5	61.3	61.1	62.6	60.4	61	62.8	62.7	65.5
P.G.	3	3.5	3.7	3.4	3.2	3	3.7	3.7	3.9	3.9	4.2

ELECTRICAL TEST

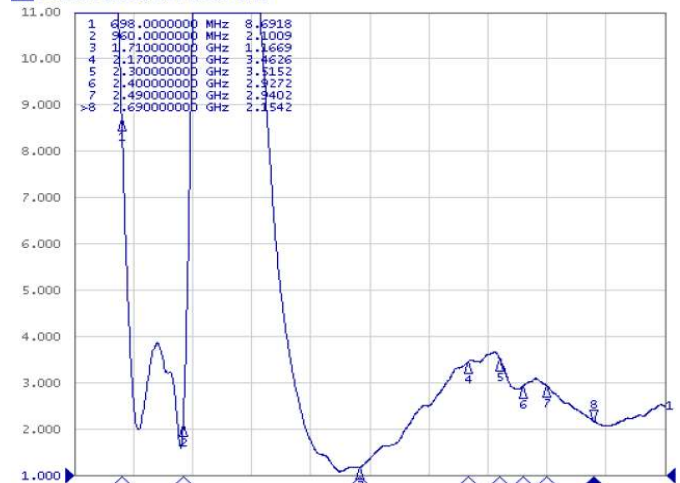
RETURN LOSS

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



VSWR

522 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.