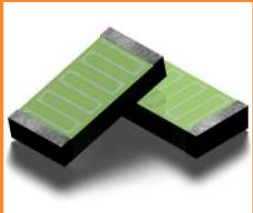
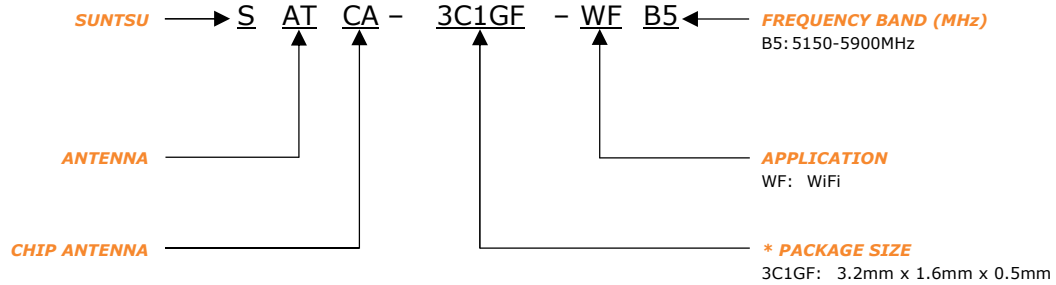


FEATURES	APPLICATIONS	
<ul style="list-style-type: none"> - WiFi/HDMI - Chip Type - Stable And Reliable Performance - 5150-5900MHz - SMT Process Compatible 	<ul style="list-style-type: none"> - IEEE802.11a (5150~5900 MHz) - HDMI PCMCIA Cards Or USB Dongle - Table PC - Smart Hand Held Devices - Machine To Machine Communication 	

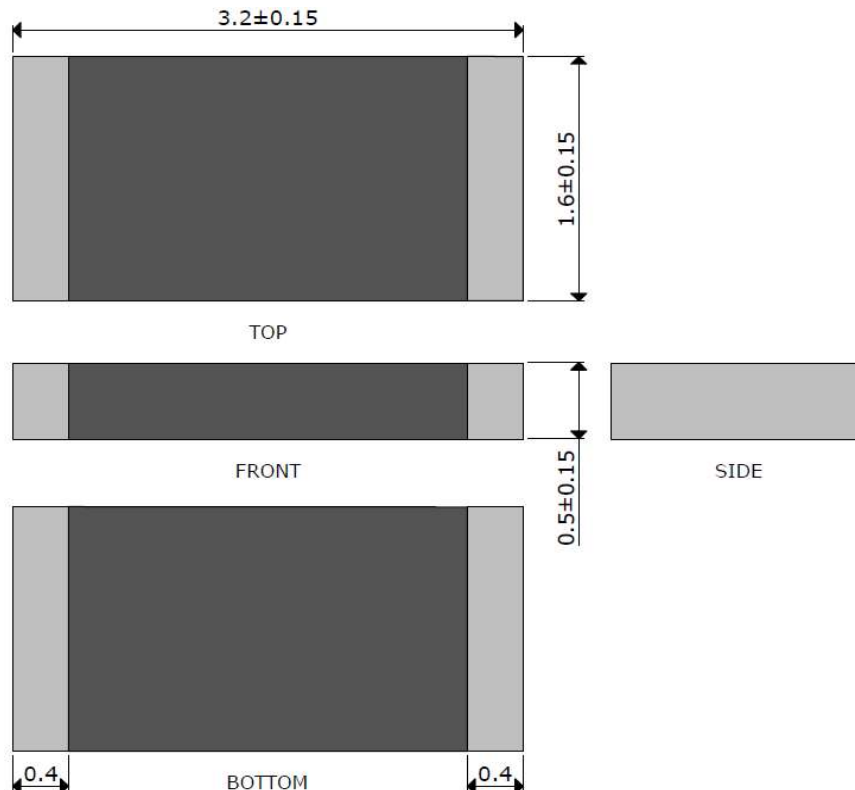
PART NUMBERING GUIDE



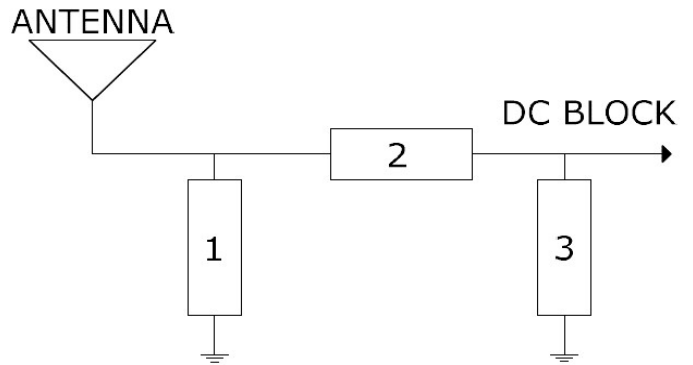
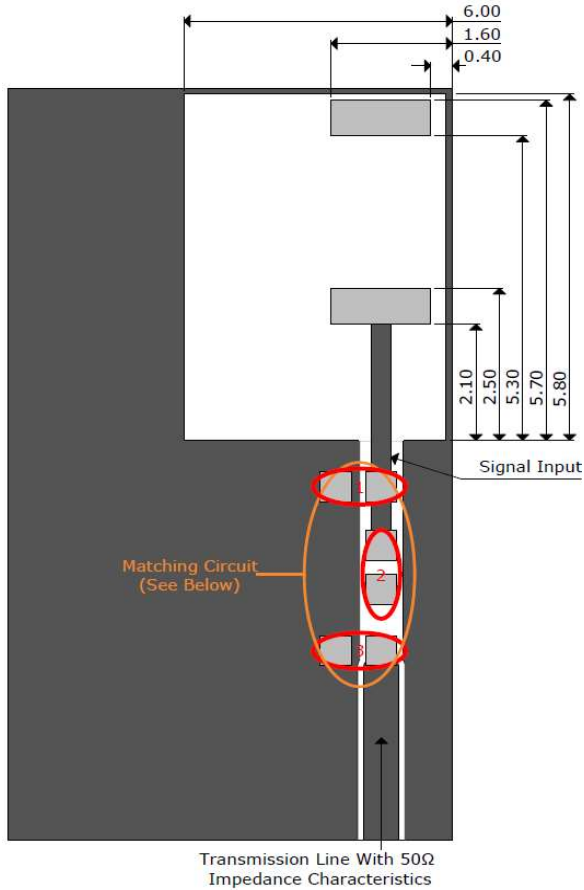
* Where letters denote decimal location A=.0, B=.1, C=.2, etc. Ex: B5=0.15, 3A5=3.05, 9A=9.0
 To customize your parameters, contact a Suntsu representative.

ELECTRICAL PARAMETERS (At 25°C)	UNITS	MIN.	TYP.	MAX	REMARKS
Frequency Band	MHz	5150		5900	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		3.4		At 5550MHz
Efficiency	%		80		At 5550MHz
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.)



RECOMMENDED LAND PATTERN & FREQUENCY TUNING SCENARIO CIRCUIT (NOTE: All dimensions are in mm, unless otherwise noted. Drawings are not to scale.)

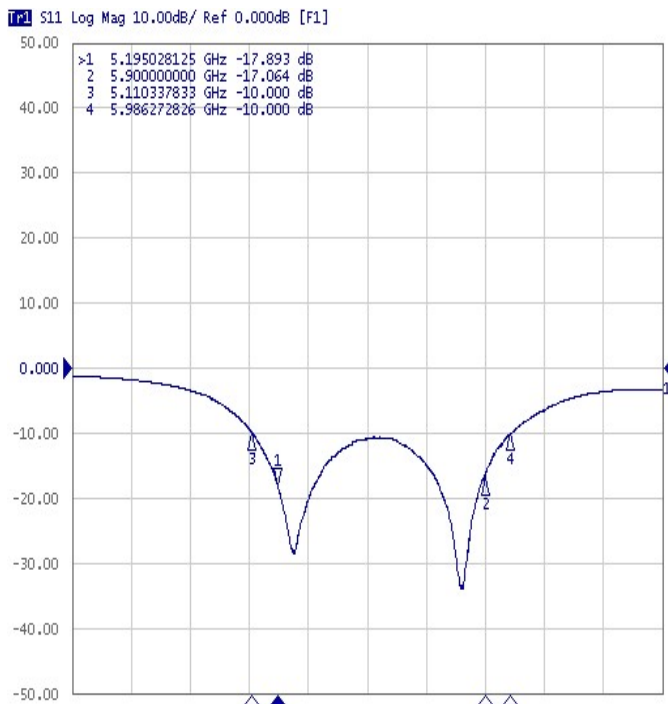


System Matching Circuit Components			
Location	Description	Vendor	Tolerance
1	0.3pF (0402)	DARFON	±0.05pF
2	4.7pF (0402)	DARFON	±0.1pF
3	0.47pF (0402)	DARFON	±0.05pF

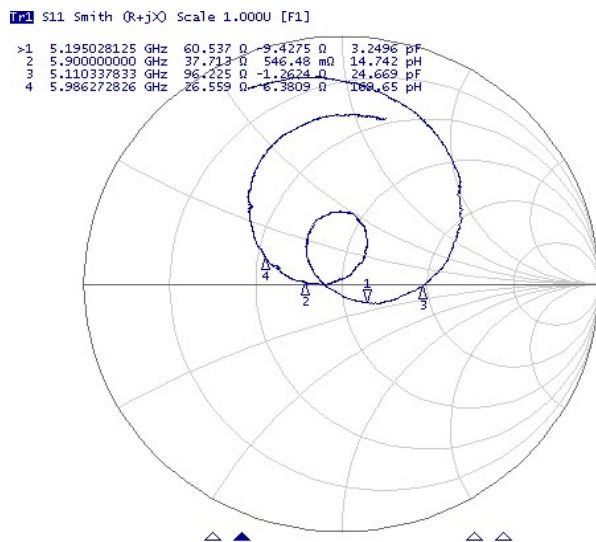
For these suggested values for the matching and tuning of components, the average frequency will be around 5550MHz on a standard 40 x 40mm² Evaluation board.
Please note, these are average reference values which may need to be changed when different circuit boards or manufactures are used.

ELECTRICAL TEST

Return Loss

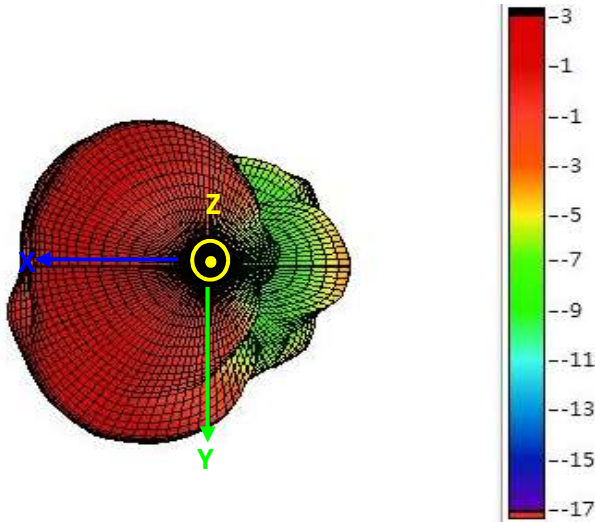


SMITH CHART

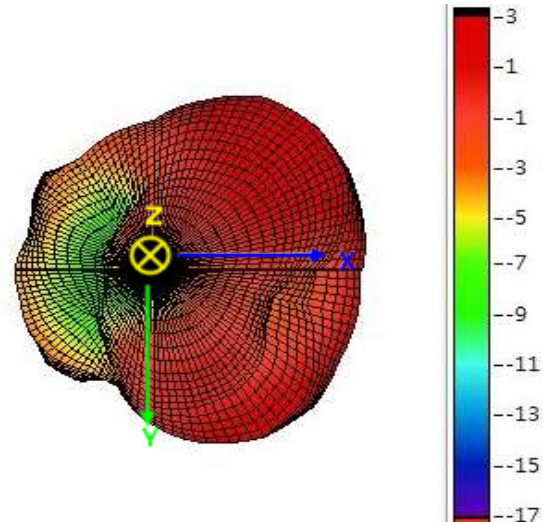


3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY

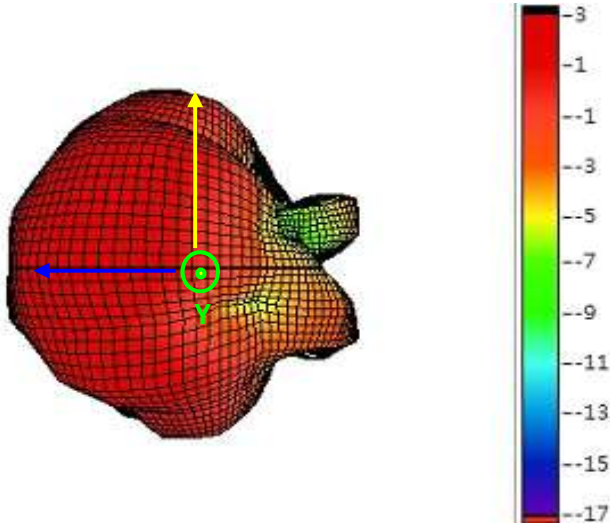
5150MHz



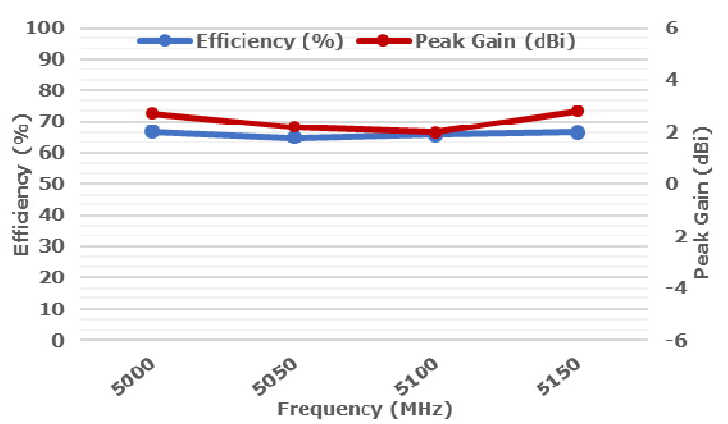
5150MHz



5150MHz

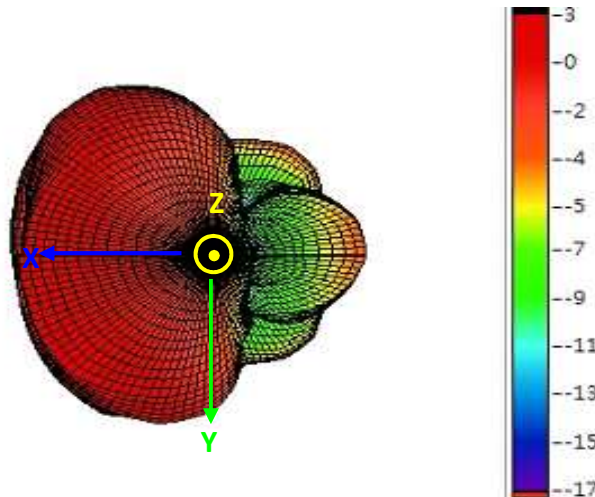


5150MHz

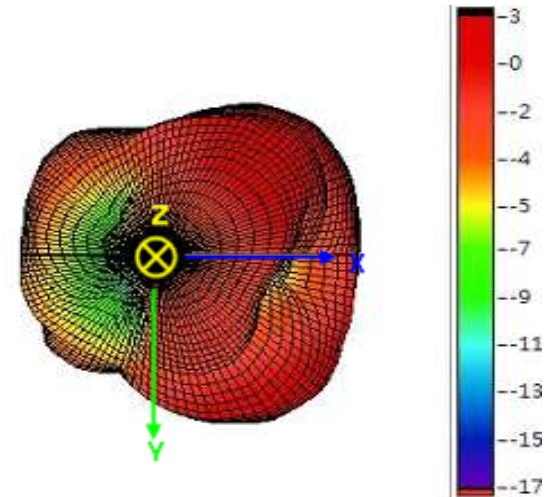


Freq.	5000	5050	5100	5150
Eff. (%)	66.8	64.9	65.8	66.5
P.G.	2.7	2.2	2.0	2.8

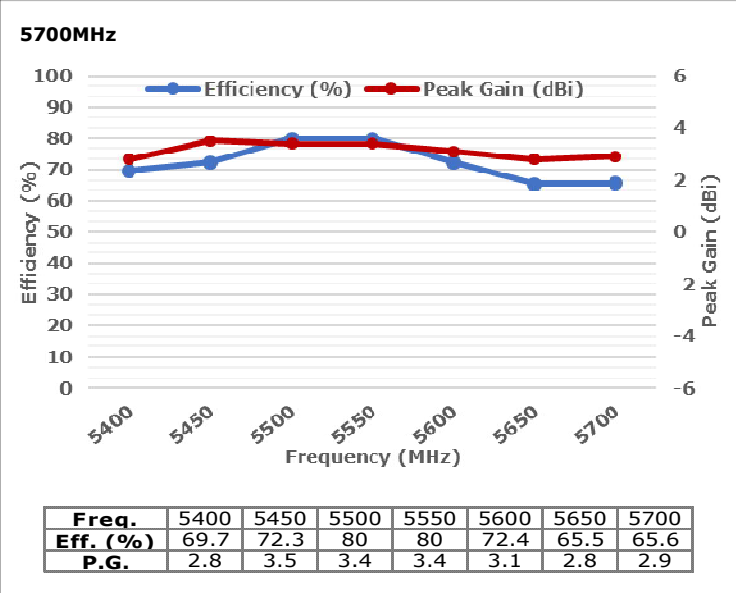
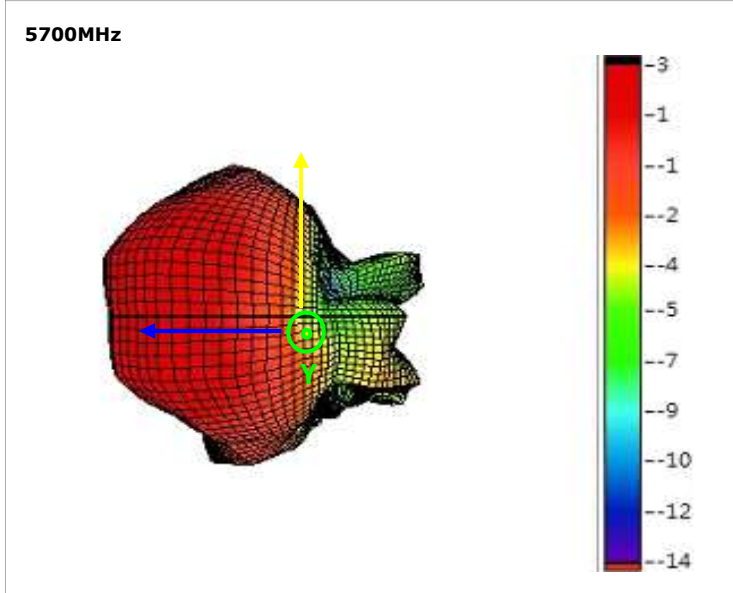
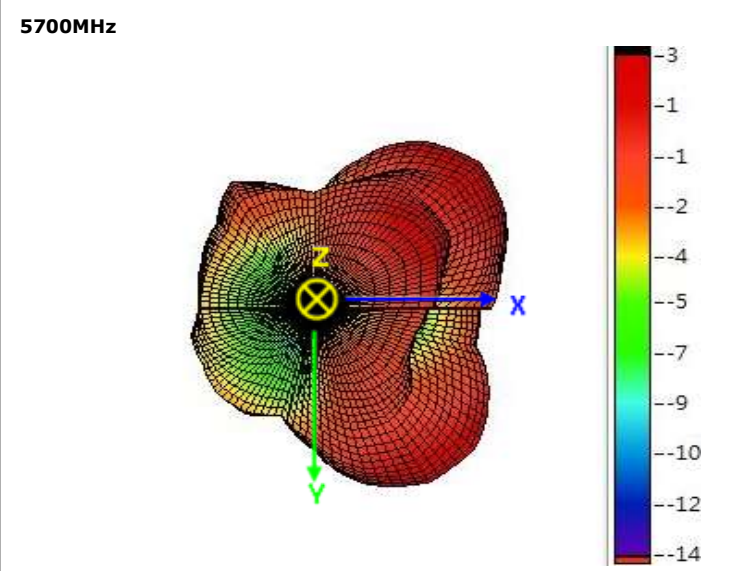
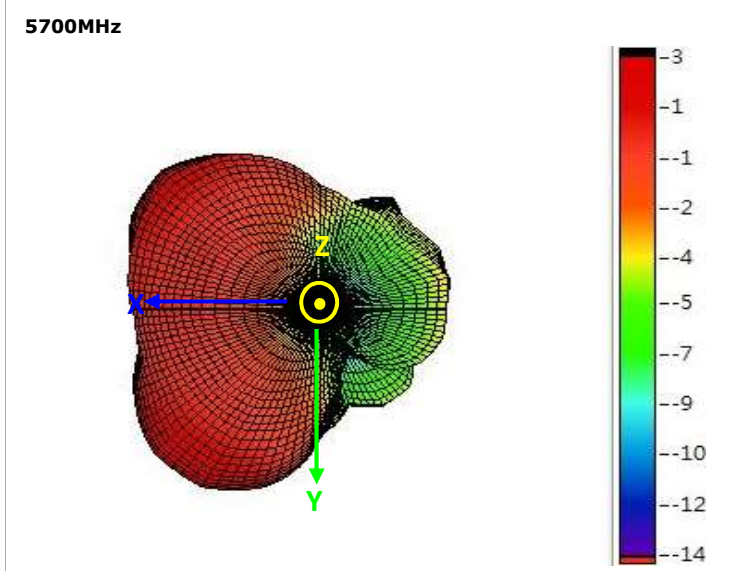
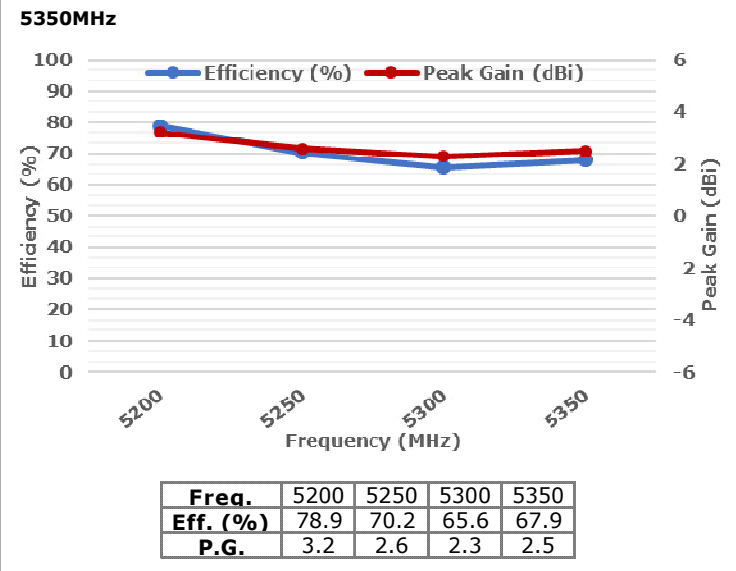
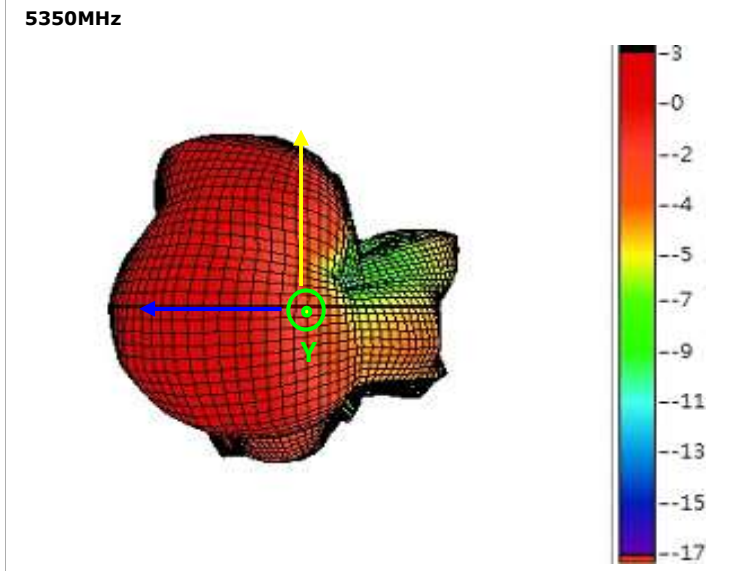
5350MHz



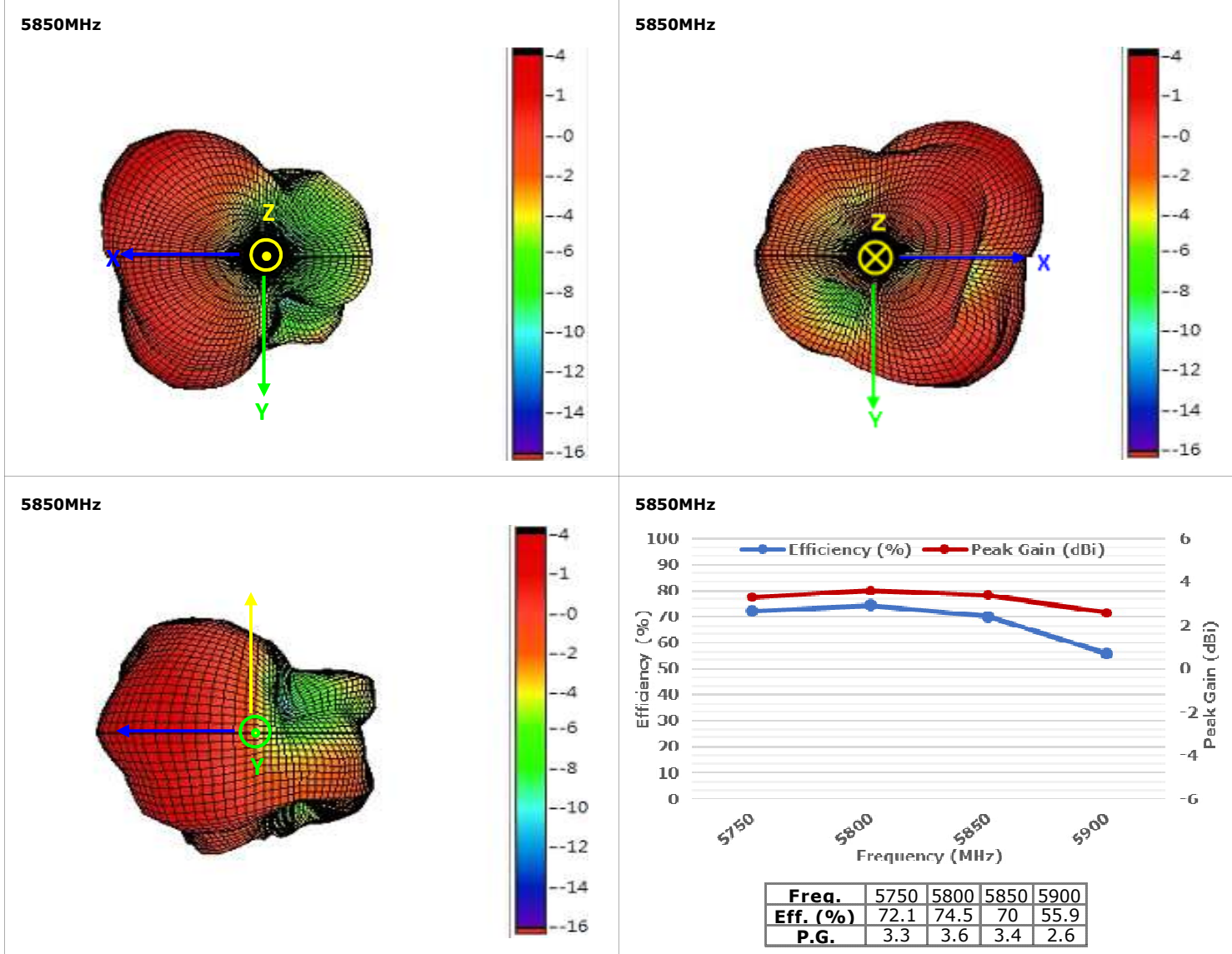
5350MHz



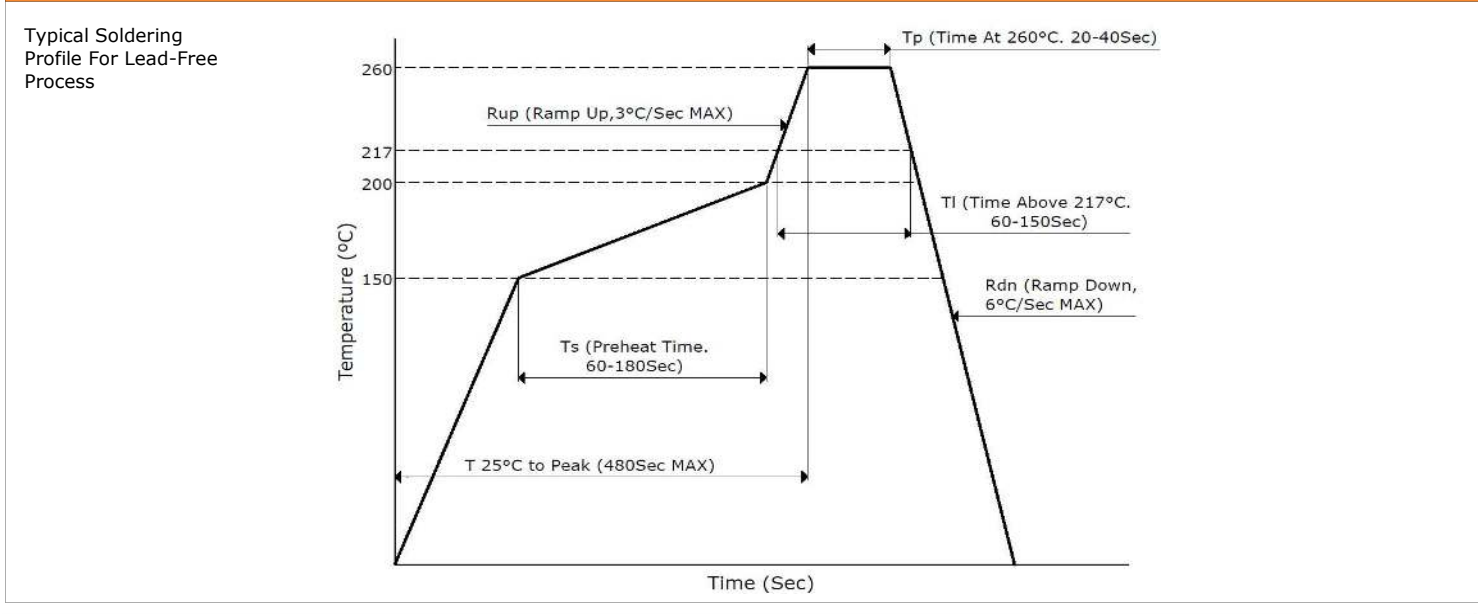
3D RADIATION PATTERN (UNIT: dBi) AND EFFICIENCY vs FREQUENCY (CONT.)



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

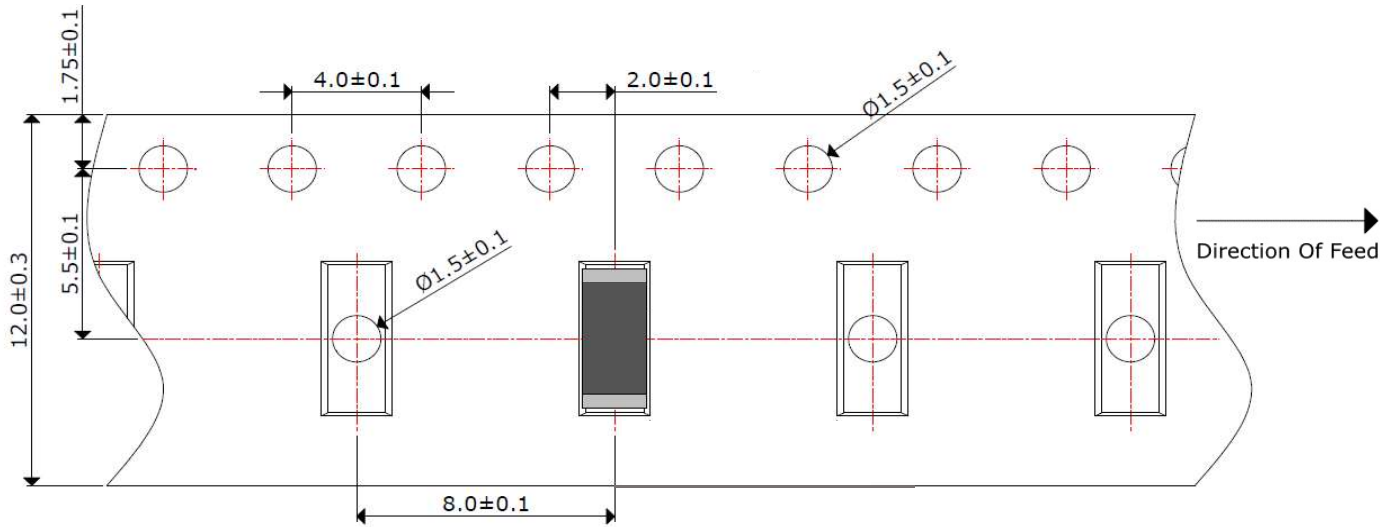


SOLDERING CONDITIONS



PACKAGING - TAPE AND REEL (NOTE: All dimensions are in mm, unless otherwise noted. Drawings are not to scale.)

5,000pcs / Reel



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.