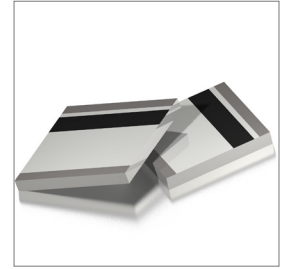
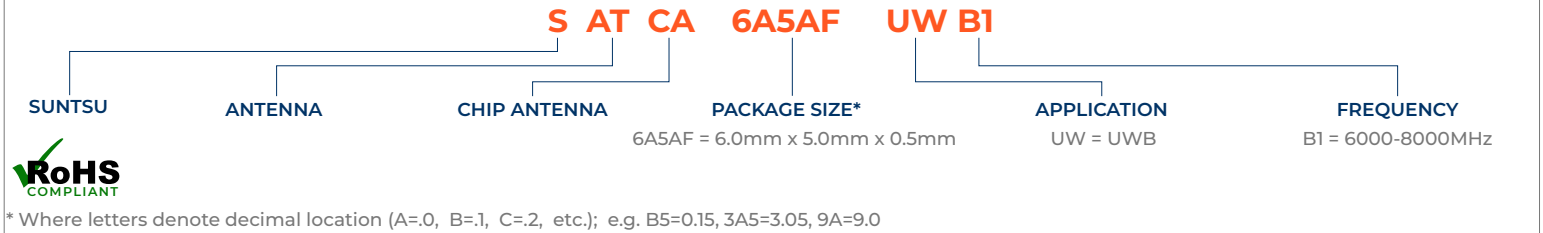


Features
<ul style="list-style-type: none"> • UWB - Ultra Wide Band • Chip Type • Stable And Reliable Performance • 6000-8000MHz • SMT Process Compatible

Applications
<ul style="list-style-type: none"> • Automotive Sensors • Ultra-wideband Radios • Precision Surveying • Remote Controls • Centimeter Level Positioning



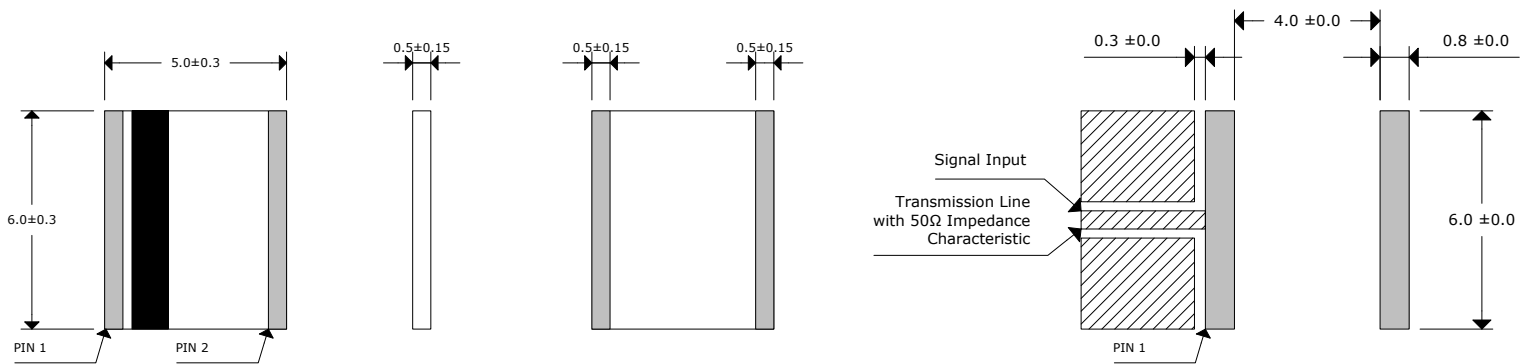
Part Numbering Guide



Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	6000		8000	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		4.5		
Efficiency	%		86		
VSWR			2.0		
Operating Temperature	C	-40		85	

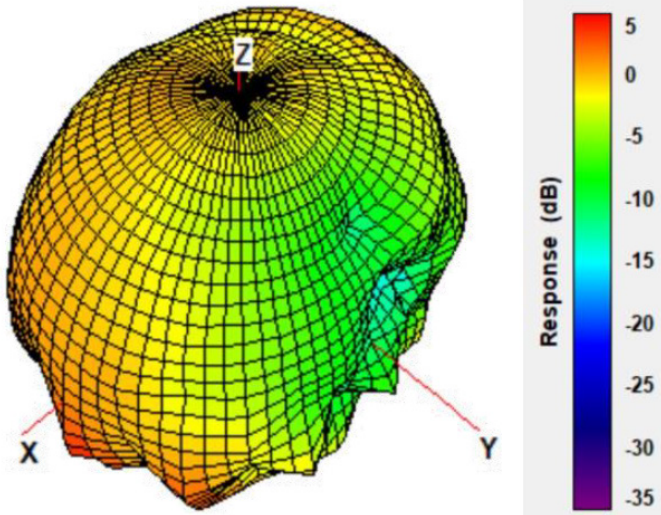
Outline Drawing and Land Pattern

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

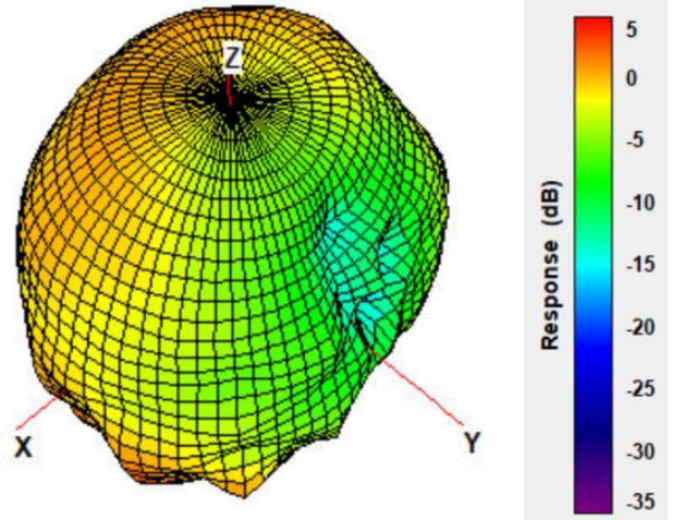


PIN	FUNCTION
1	Signal
2	N/A

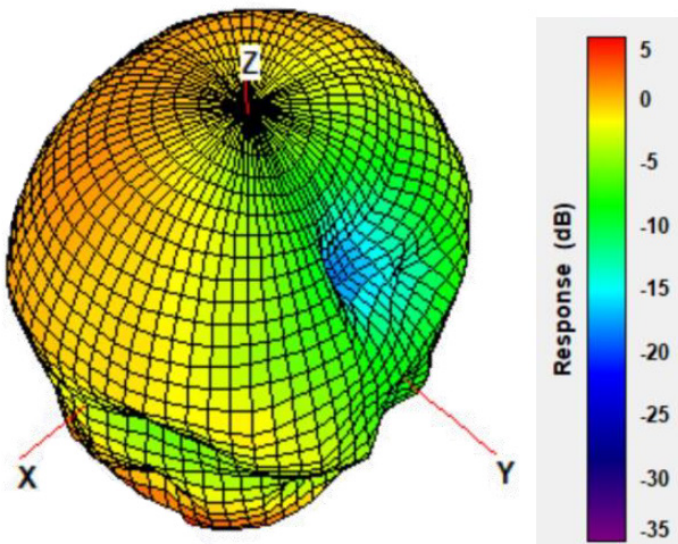
Radiation Pattern
 6000MHz



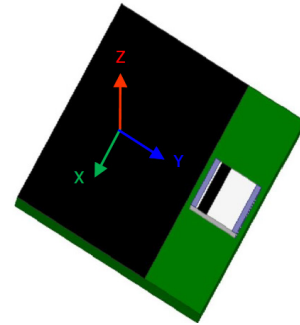
Radiation Pattern
 7000MHz



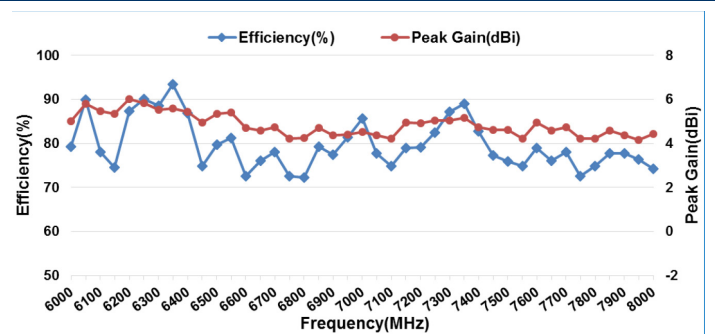
Radiation Pattern
 8000MHz



3D Radiation Gain Pattern

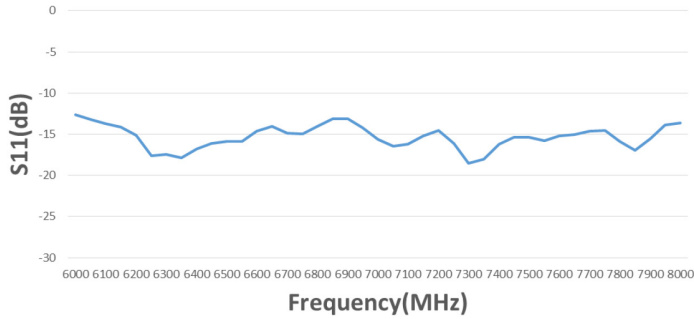


Efficiency vs. Peak Gain



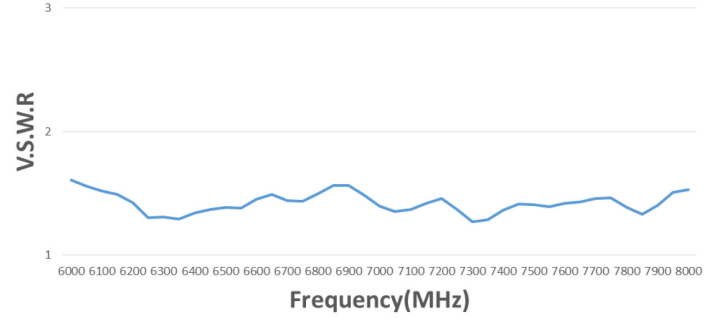
Electrical Test

Return Loss



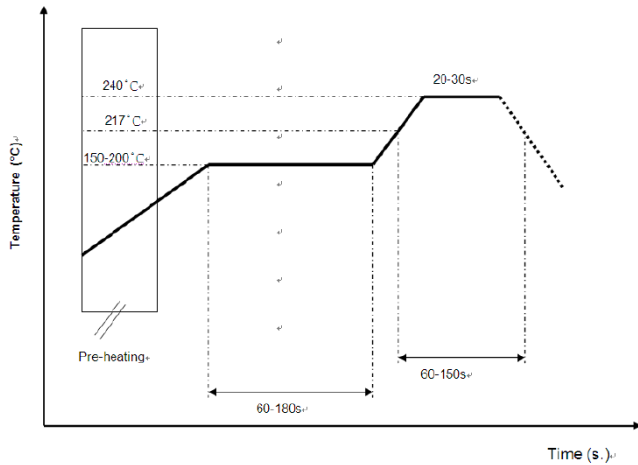
Electrical Test

VSWR



Soldering Conditions

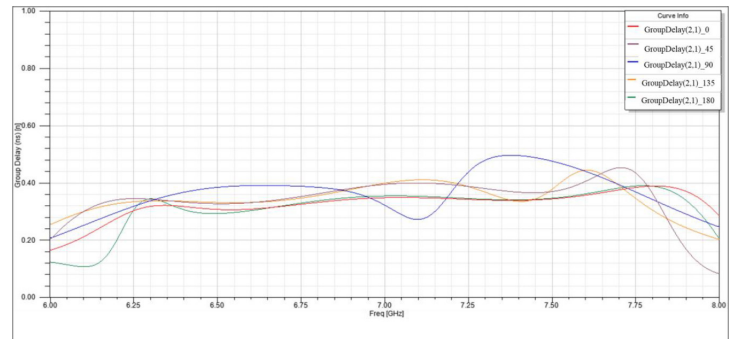
Typical Soldering Profile For Lead-Free Process



*Recommended solder paste alloy: SAC305 (Sn96.5 /Ag3 /Cu0.5) Lead Free solder paste.

Electrical Test

Group Delay vs. Frequency



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%RH 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.