

Chip Antenna SATCA-2AICG-WFB7 2.0mm x 1.2mm x 0.6mm



Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	2400		2484	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		1.9		At 2442MHz
Average Gain	dB		-2.3		At 2442MHz
Efficiency	%		59.2		At 2442MHz
Operating Temperature	С	-40		85	



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

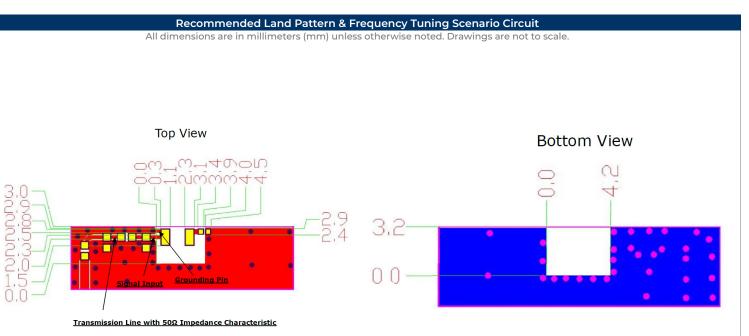
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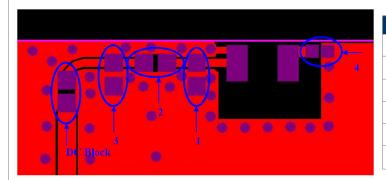
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Specifications are subject to change without notice.

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System Matching Circuit Components					
Location	Description	Vendor	Tolerance		
1	N/C	-	-		
2	5.0pF	MURATA (0402)	±0.05pF		
3	0.8pF	MURATA (0402)	±0.05pF		
4	2.7pF	MURATA (0201)	±0.05pF		
DC Block	22pF	MURATA (0402)	±5%		

For these suggested values for the matching and tuning of components the center frequency will be 2442MHz on a standard 40 x 20mm² Evaluation board. Please note, these are reference values which may need to be changed when different circuit boards or manufactures are used.

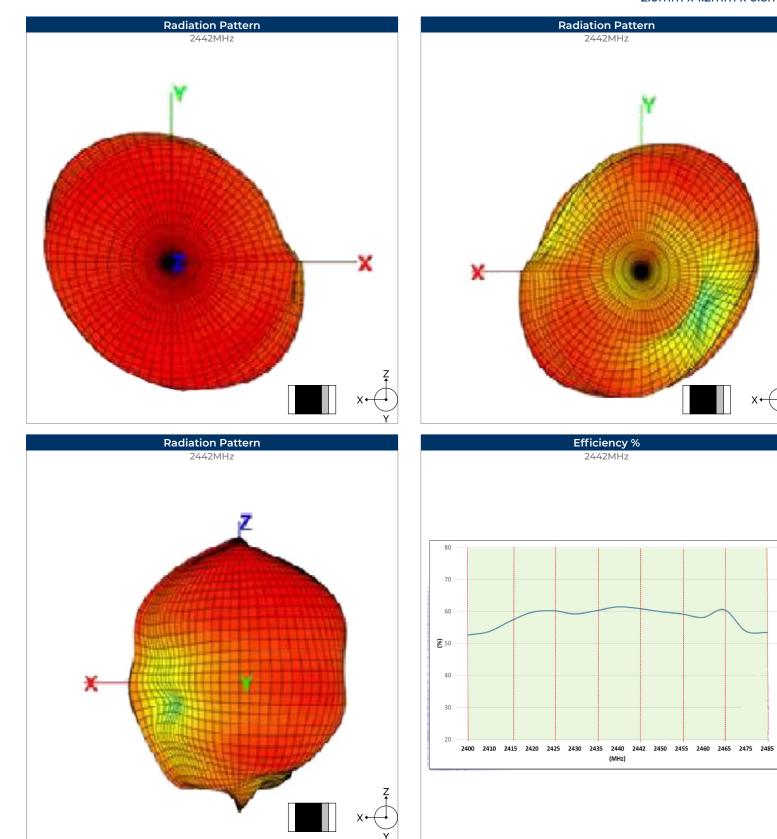
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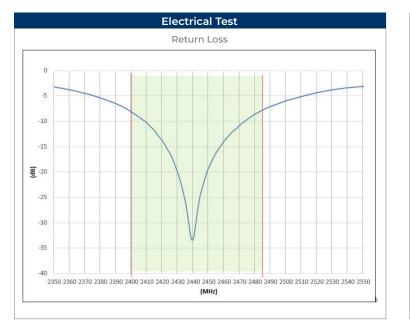
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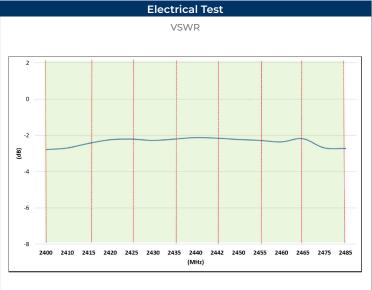
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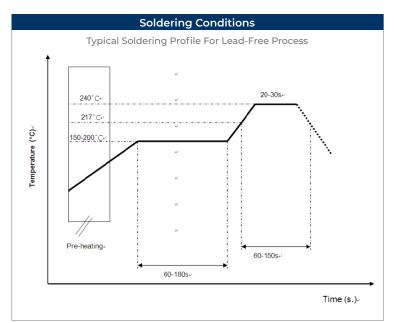
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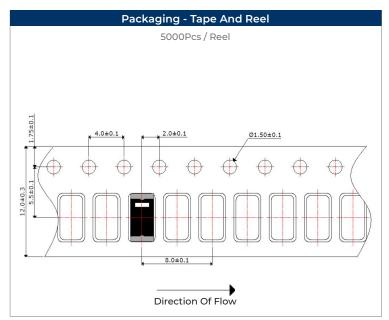
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Environmental & Mechanical Specifications				
High Temperature Test	85°C for 500 hours, and then to normal temperature/humidity for 24hours.			
Low Temperature Test	-30°C for 500 hours, and then to normal temperature/humidity for 24hours.			
Humidity 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.			
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.			

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