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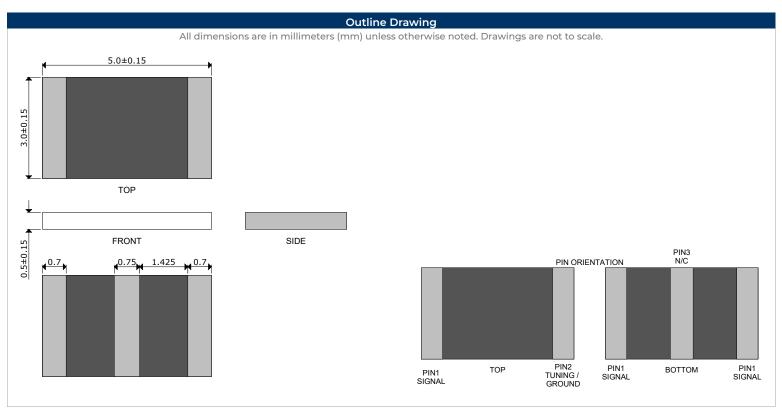
### Chip Antenna SATCA-5A3AF-ISB5 5.0mm x 3.0mm x 0.5mm



		Pa	art Numbering Guide		
		S AT (	CA 5A3AF IS B	5	
SUNTSU	ANTENNA	CHIP ANTENNA	PACKAGE SIZE*	APPLICATION	FREQUENCY
ROHS		543	AF = 5.0mm x 3.0mm x 0.5mm	IS = ISM	B5 = 863-870MHz

\* Where letters denote decimal location (A=.0, B=.1, C=.2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	863		870	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		-0.9		At 868MHz
Efficiency	%		52		At 868MHz
VSWR				2	At Center Frequency
Operating Temperature	С	-40		85	



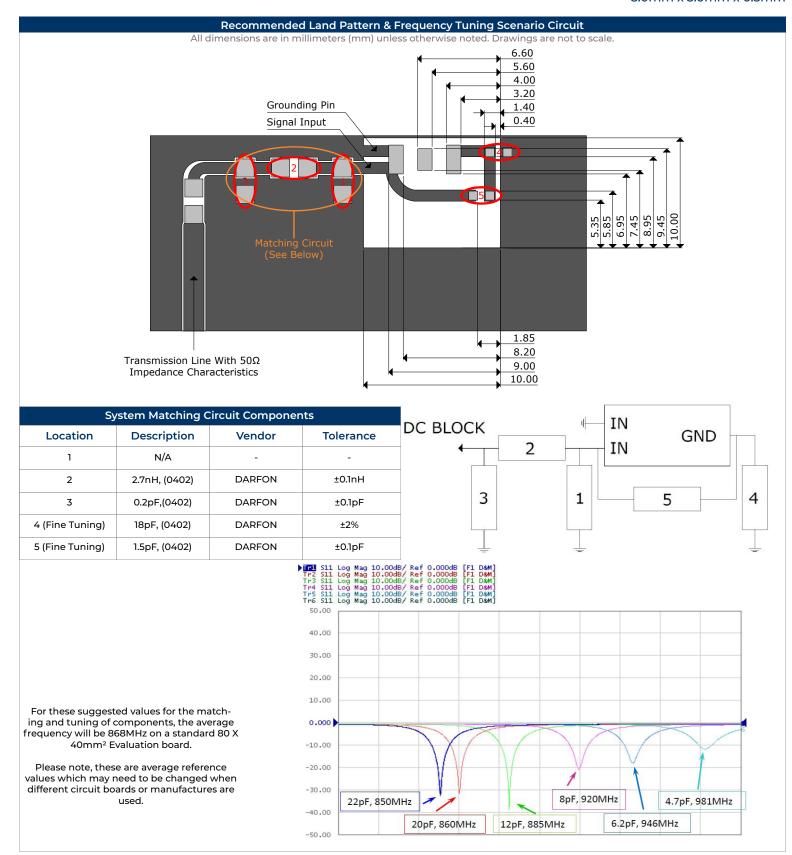
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Specifications are subject to change without notice.

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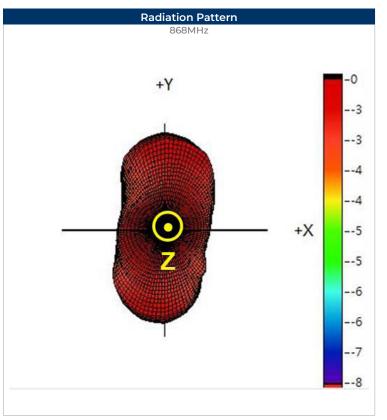
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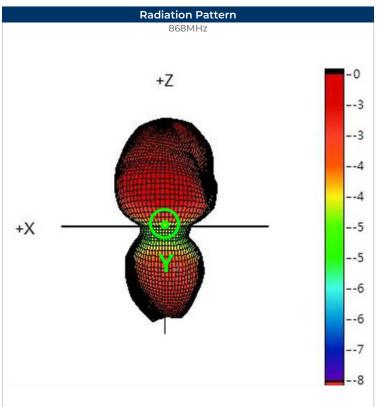
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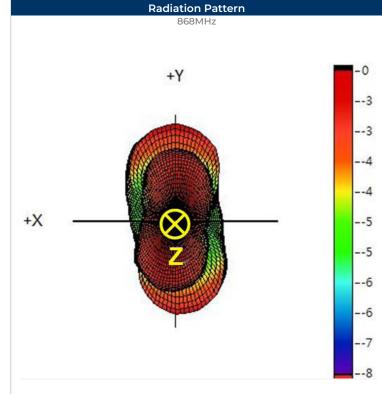
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Efficiency V's Frequency 868MHz 100 6 ●●Efficiency (%) ●●Peak Gain (dBi) 90 4 80 ) 60 60 2 Peak Gain (dBi) 0 20 -4 10 0 -6 86<sup>A</sup> 865 8<sup>69</sup> 863 8<sup>66</sup> 861 86<sup>8</sup> 810 812 812 813 Frequency (MHz)

Eff. (%) 45.9 48.4 50.3 52.2 52.5 52.8 51.8 50.8 50.3	49.2 47	47.7
<b>P.G.</b> -1.5 -1.3 -1.1 -0.9 -0.9 -0.9 -1 -1 -1.1	-1.2 -1	-1.3
	L	

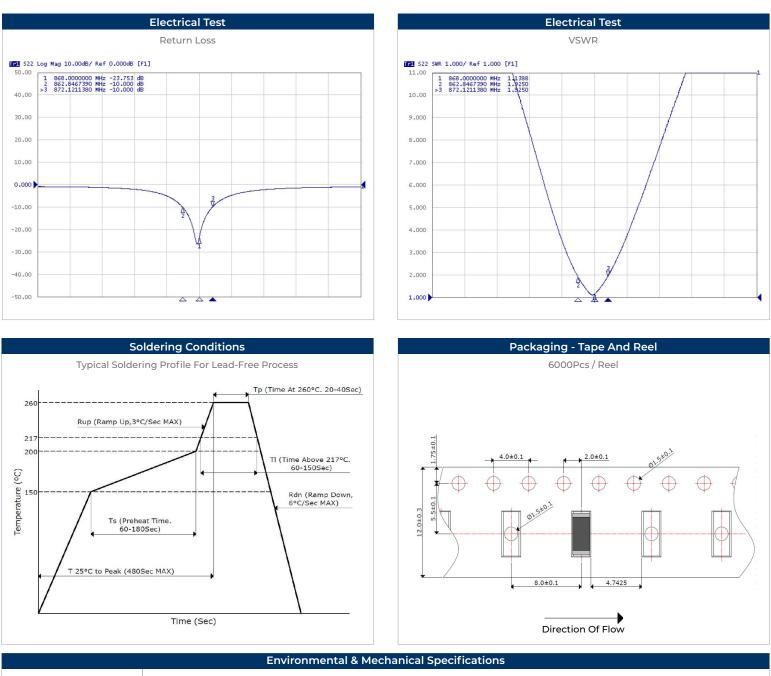
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### Chip Antenna SATCA-5A3AF-ISB5 5.0mm x 3.0mm x 0.5mm



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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