

Features

- ISM
- Chip Type
- Stable And Reliable Performance
- 863-870MHz
- SMT Process Compatible

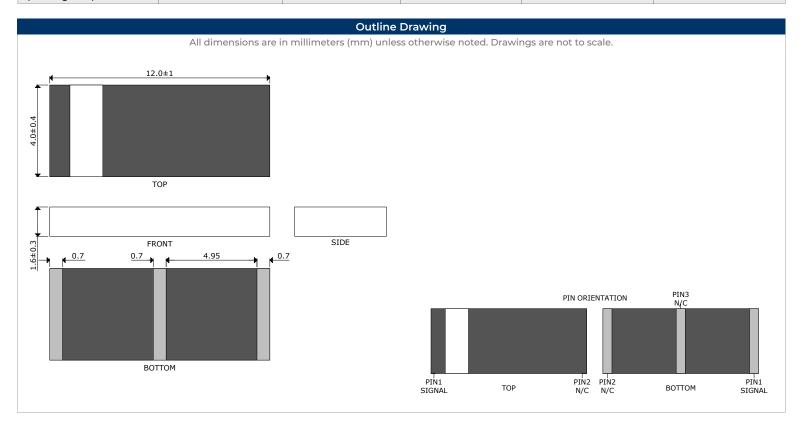
Applications

- ISM Band System
- Wireless Alarm And Security System
- Smart Meters
- IOT Applications
- Machine To Machine Communication





Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	863		870	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		-0.6		At 868MHz
Efficiency	%		35.3		At 868MHz
VSWR				2	At Center Frequency
Operating Temperature	С	-40		85	



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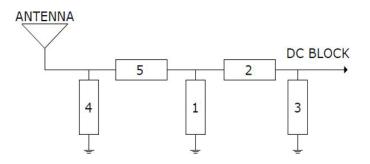
Recommended Land Pattern & Frequency Tuning Scenario Circuit All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale. 40.00 22.10 17.90 Signal Input Matching Circuit (See Below) Transmission Line With 50Ω

System Matching Circuit Components					
Location	Description	Vendor	Tolerance		
1	1.8pF, (0402)	MURATA	±0.05pF		
2	0Ω, (0402)	-	-		
3	N/A	-	-		
4 (Fine Tuning)	N/A	-			
5 (Fine Tuning)	8.2nH, (0402)	MURATA	±5%		

Impedance Characteristics

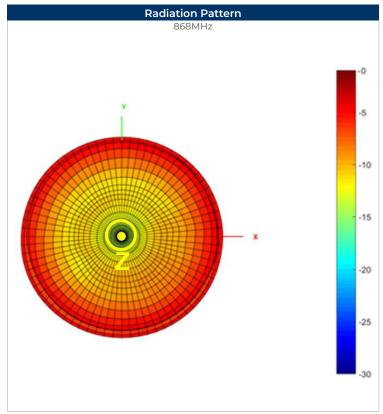
For these suggested values for the matching and tuning of components, the average frequency will be 868MHz on a standard 80 x 40mm² Evaluation board.

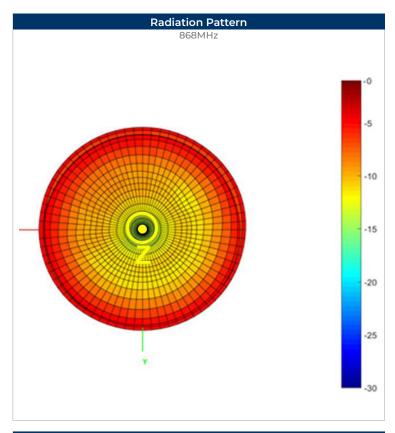
Please note, these are average reference values which may need to be changed when different circuit boards or manufactures are used.

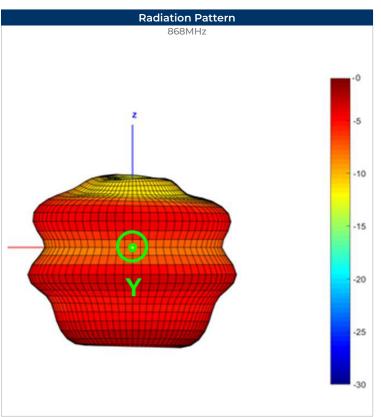


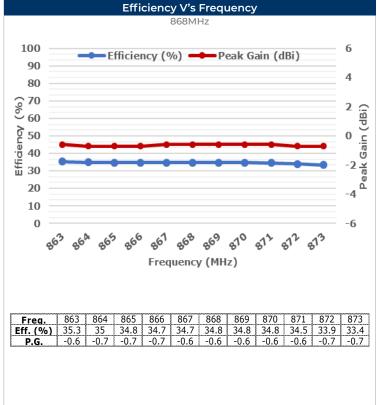
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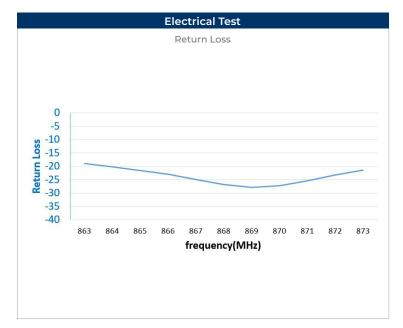


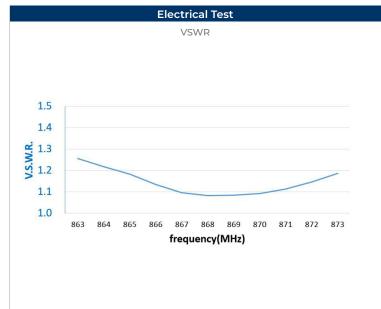


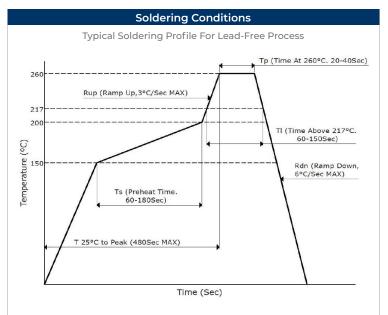
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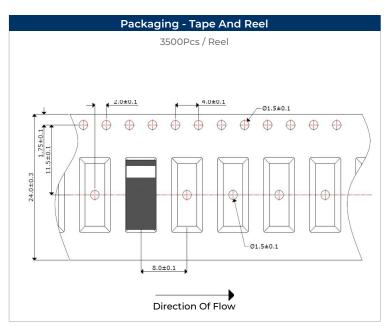
Specifications are subject to change without notice.











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.			