

Features

- ISM
- Chip Type
- Stable And Reliable Performance
- 902-928MHz
- SMT Process Compatible

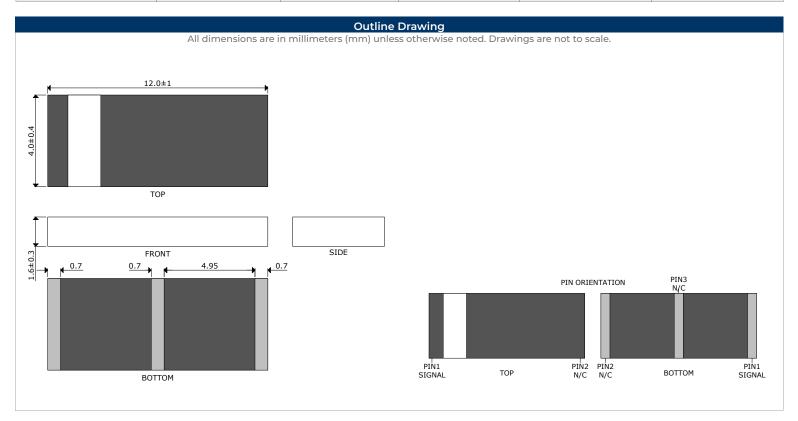
Applications

- 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		-0.98		At 915MHz
Efficiency	%		32.9		At 915MHz
VSWR				2	At Center Frequency
Operating Temperature	С	-40		85	



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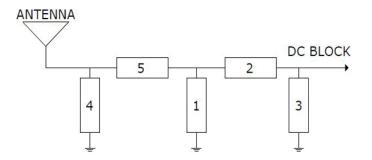


Recommended Land Pattern & Frequency Turning Scenario Circuit All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

System Matching Circuit Components					
Location	Description	Vendor	Tolerance		
1	6.8nH, (0402)	MURATA	±3%		
2	1.5nH, (0402)	MURATA	±0.1nF		
3	N/A	-	-		
4 (Fine Tuning)	0.4pF, (0402)	MURATA	±0.05pF		
5 (Fine Tuning)	8.2nH, (0402)	MURATA	±5%		

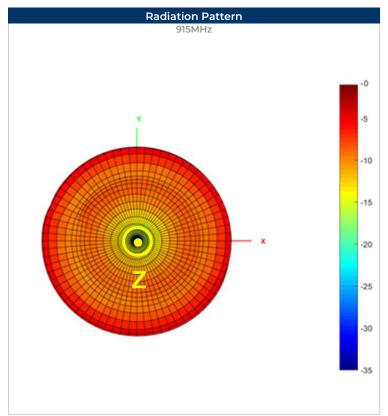
For these suggested values for the matching and tuning of components, the average frequency will be 915MHz on a standard 80 x 40mm² Evaluation board.

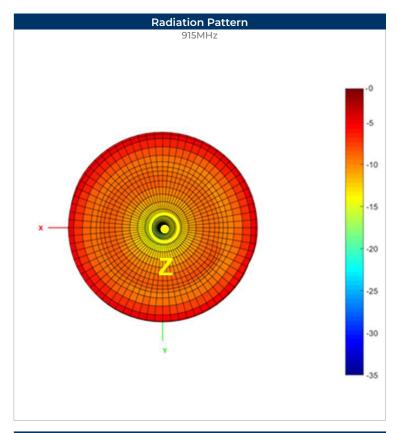
Please note, these are average reference values which may need to be changed when different circuit boards or manufactures are used

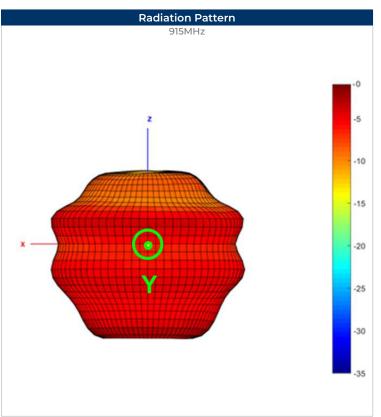


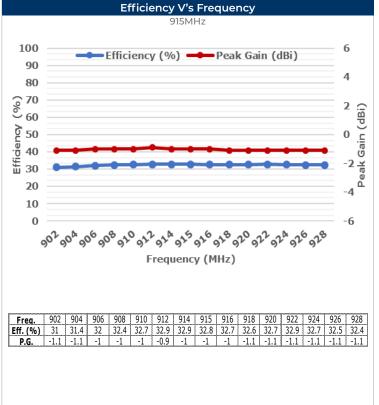
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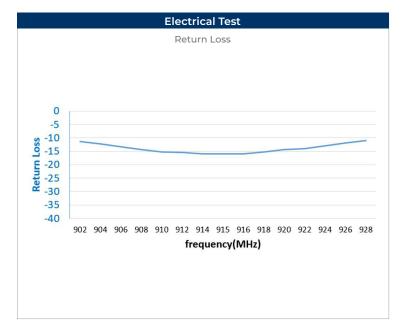


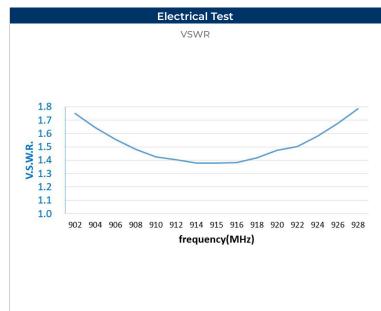


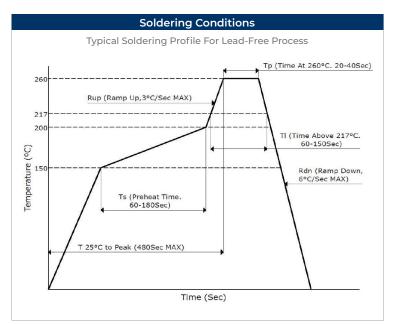
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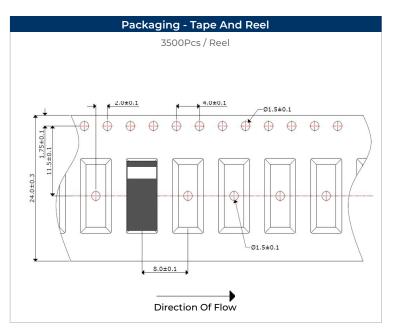
Specifications are subject to change without notice.











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.			