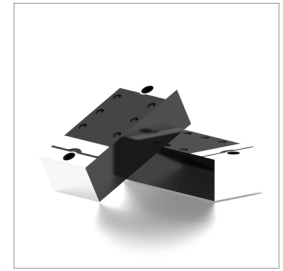
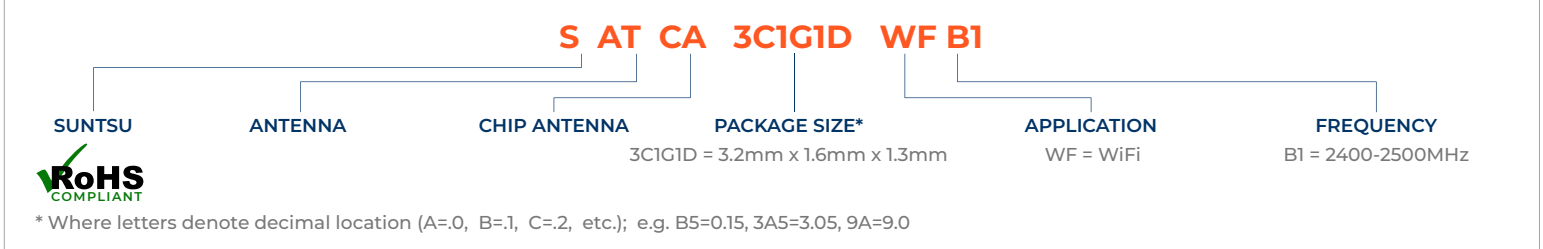


Features
<ul style="list-style-type: none"> WiFi/ZigBee/Bluetooth Chip Type Stable And Reliable Performance 2400-2500MHz SMT Process Compatible

Applications
<ul style="list-style-type: none"> ISM 2.4 GHz Applications ZigBee/BLE Applications Bluetooth Earphone Systems Smart Hand Held Devices Machine To Machine Communication



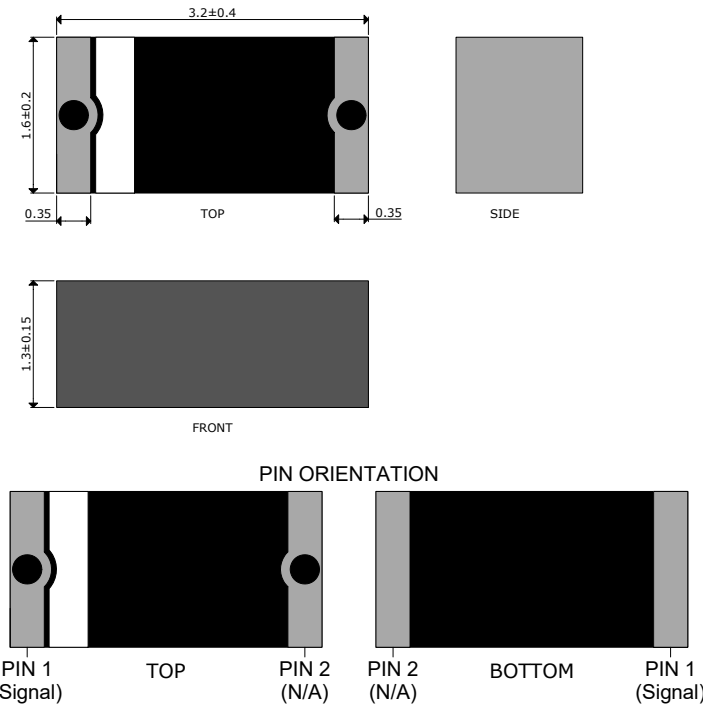
Part Numbering Guide



Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	2400		2500	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		1.2		At 2442MHz
Efficiency	%		52		At 2442MHz
VSWR				2	At Center Frequency
Operating Temperature	C	-40		85	

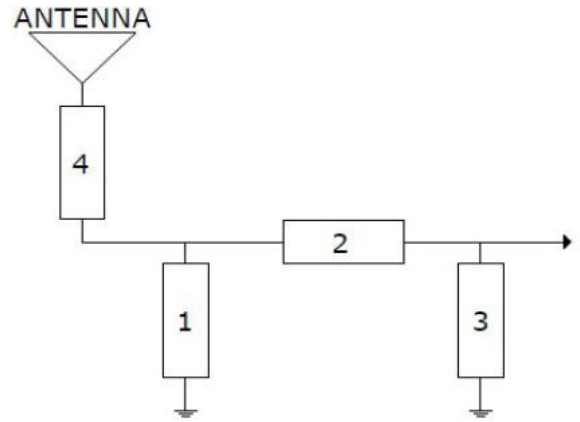
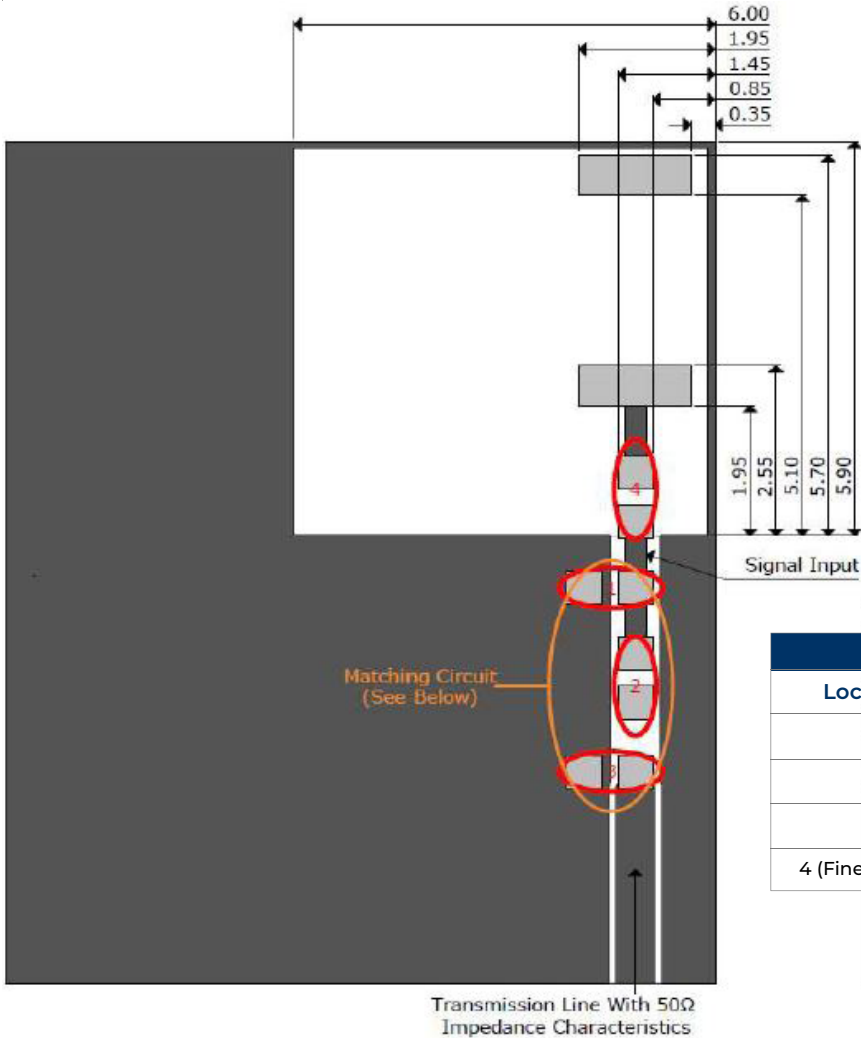
Outline Drawing

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



Recommended Land Pattern & Frequency Tuning Scenario Circuit

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

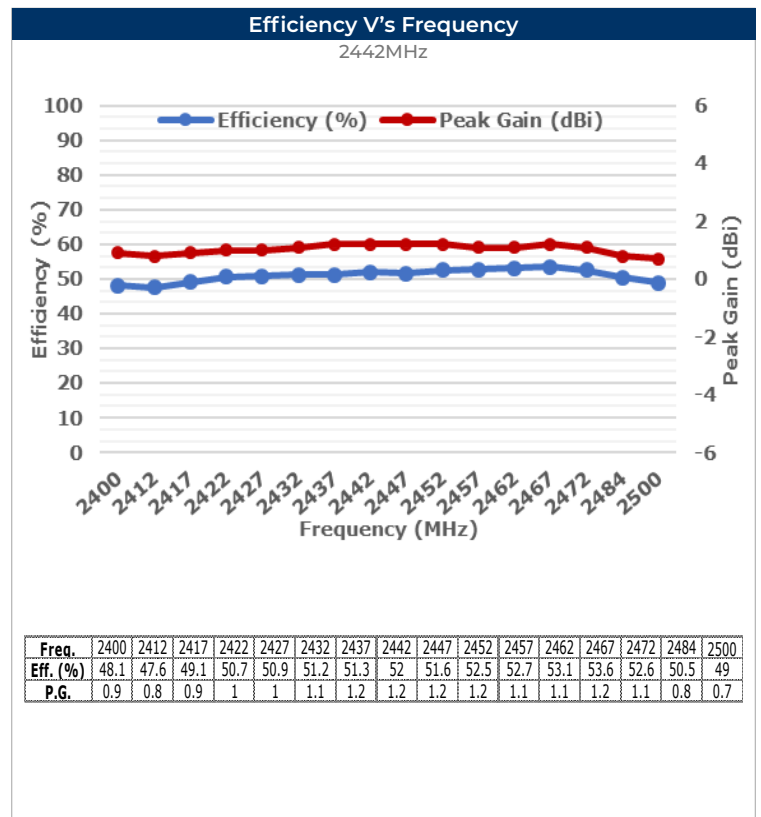
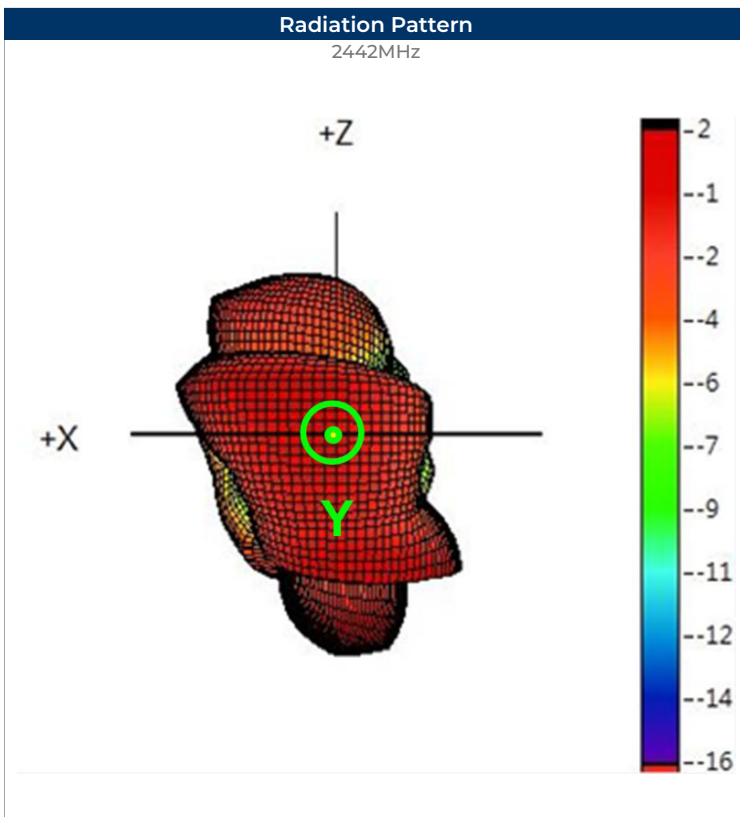
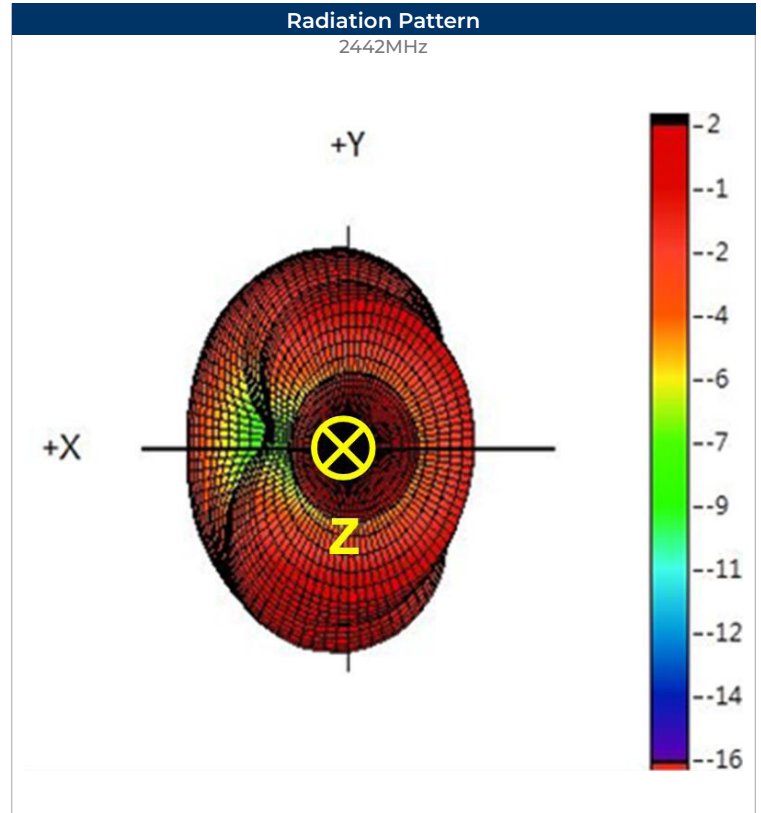
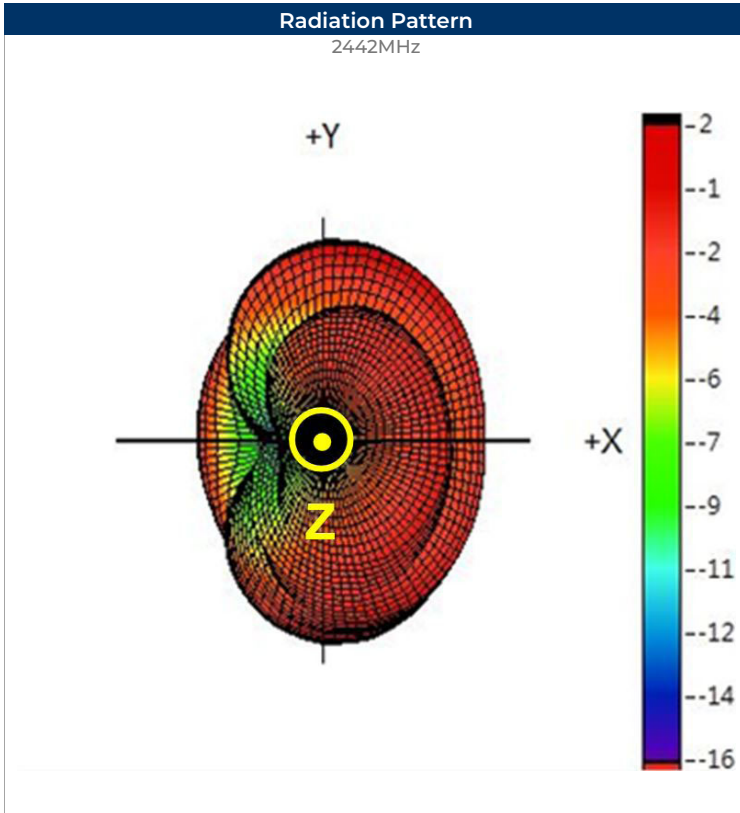


System Matching Circuit Components			
Location	Description	Vendor	Tolerance
1	N/A	-	-
2	1.8nH, (0402)	MURATA	±0.1nH
3	0.7pF, (0402)	MURATA	±0.05pF
4 (Fine Tuning)	8.2nH, (0402)	MURATA	±2%

Transmission Line With 50Ω Impedance Characteristics

For these suggested values for the matching and tuning of components, the average frequency will be 2442MHz on a standard 40 x 40mm² Evaluation board.

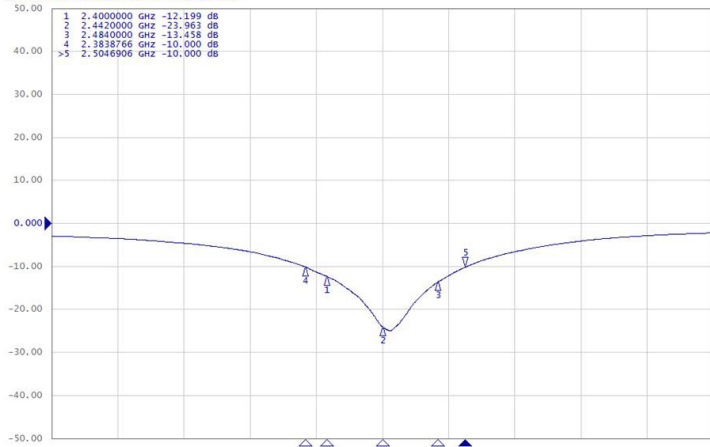
Please note, these are average reference values which may need to be changed when different circuit boards or manufactures are used.



Electrical Test

Return Loss

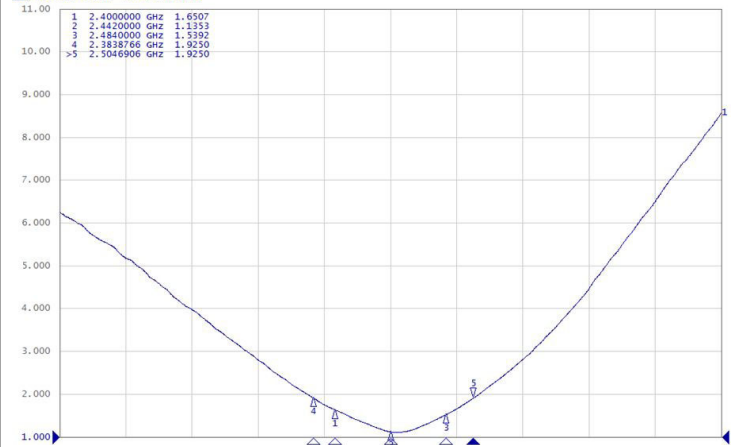
[F1] S22 Log Mag 10.00dB/ Ref 0.000dB [F1]



Electrical Test

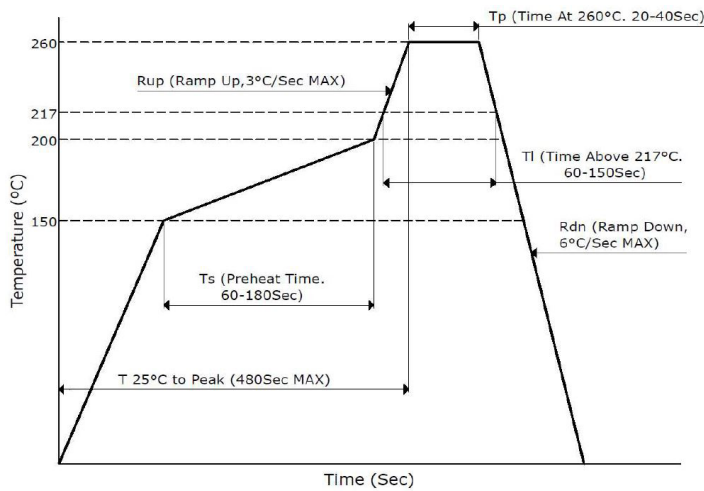
VSWR

[F2] S22 SWR 1.000/ Ref 1.000 [F1]



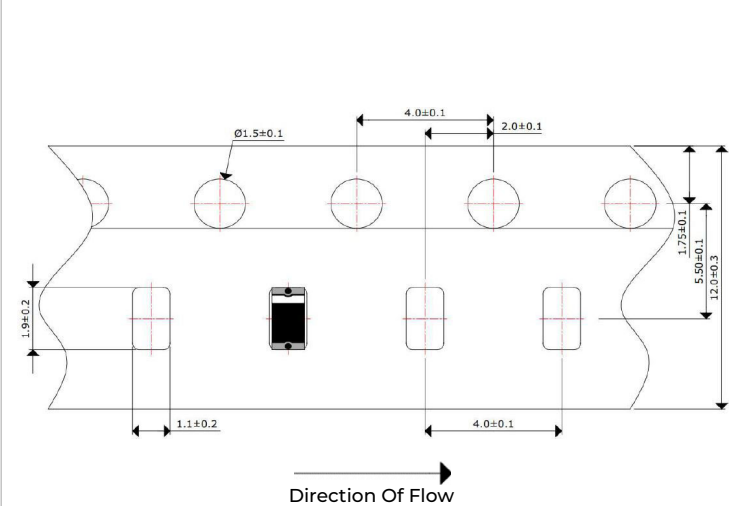
Soldering Conditions

Typical Soldering Profile For Lead-Free Process



Packaging - Tape And Reel

2,000Pcs / Reel



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.