

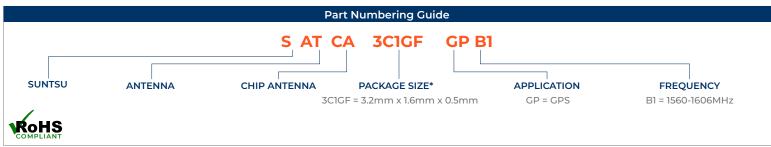
#### **Features**

- GNSS
- Chip Type
- Stable And Reliable Performance
- 1560~1606MHz
- SMT Process Compatible

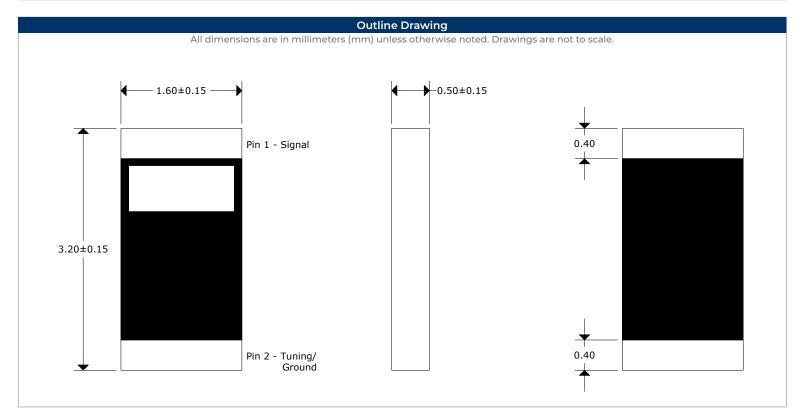
### **Applications**

- Hand-held devices when GPS & BDS & GLONASS & GALILEO functions are needed.
- PDA, Smart Phone, PND



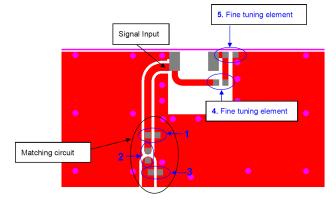


Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	1560		1606	
Impedance	Ω		50		
Polarization			Linear		
Peak Gain	dBi		1.8		At 1575.42MHz
Efficiency	%		77		At 1575.42MHz
VSWR				2	At Center Frequency
Operating Temperature	С	-40		85	





# Recommended Land Pattern & Frequency Tuning Scenario Circuit All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale. Grounding pin Signal input Transmission Line with 50Ω Impedance Characteristic Top View **Bottom View** IN GND 2 IN - DC 4



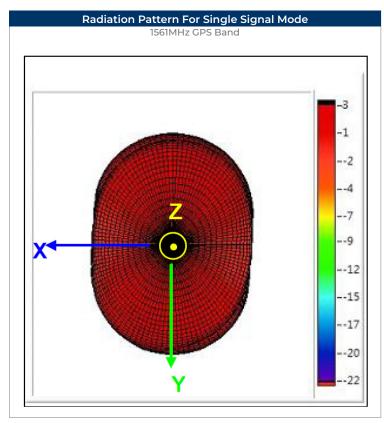
System Matching Circuit Components					
Location	Description	Vendor	Tolerance		
1	1.5pF	Murata (0402)	±0.05pF		
2	0Ω	-	-		
3	3.3pF	Murata (0402)	±0.05pF		
4 Fine Tuning Element	1pF	Murata (0402)	±0.05pF		
5 Fine Tuning Element	2.7pF	Murata (0402)	±0.05pF		

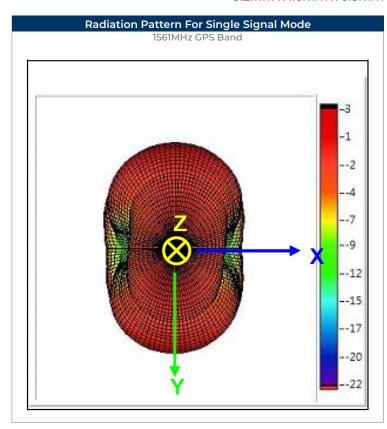
For these suggested values for the matching and tuning of components the center frequency will be 1575.42MHz on a standard 80 x  $40 \text{mm}^2$  Evaluation board.

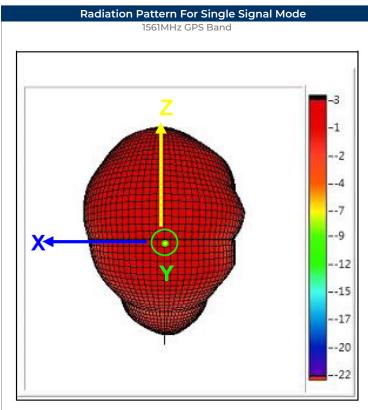
Please note, these are reference values which may need to be changed when different circuit boards or manufactures are used.

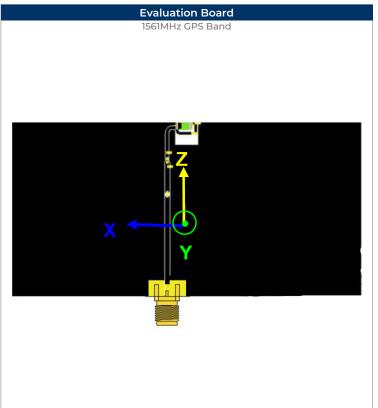
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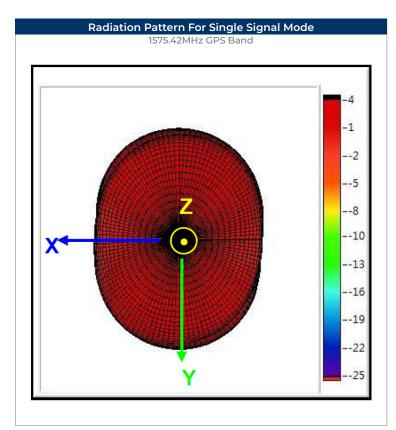


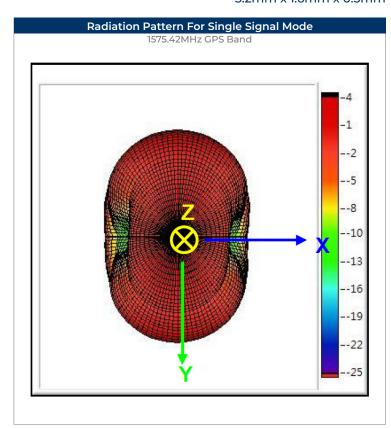


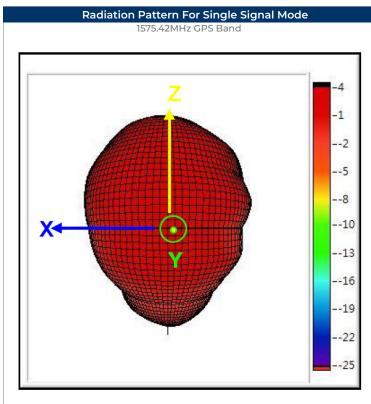
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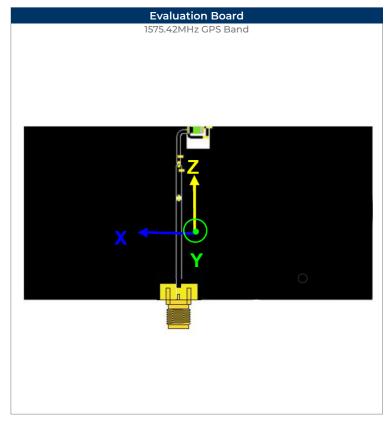
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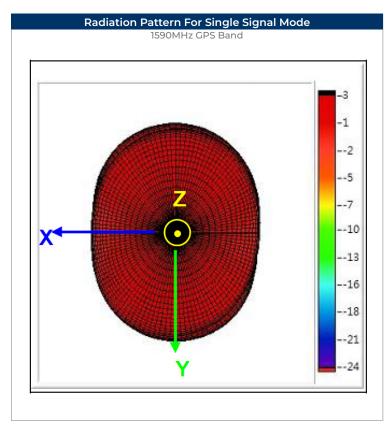


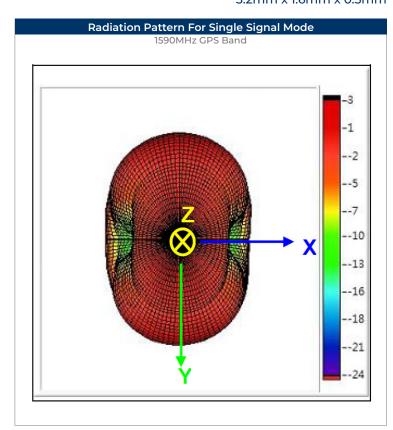


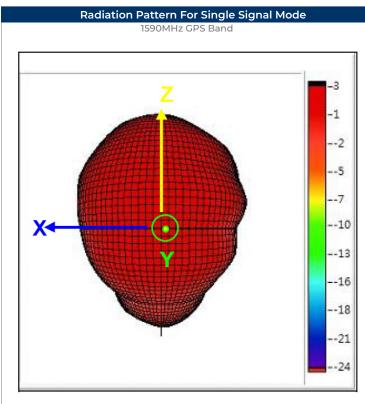


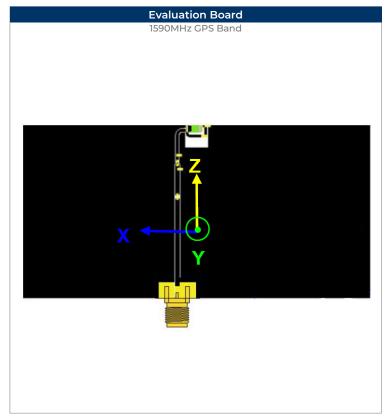
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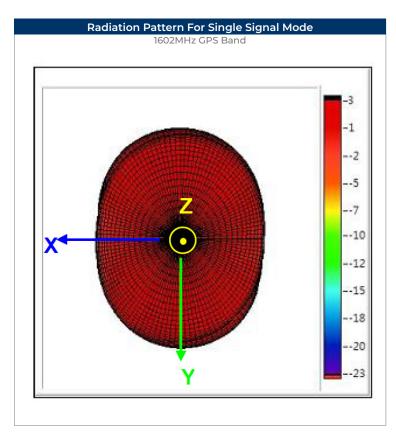


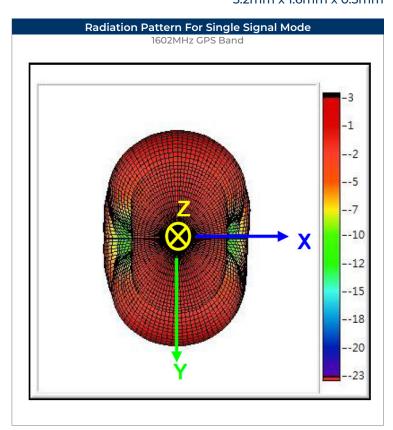
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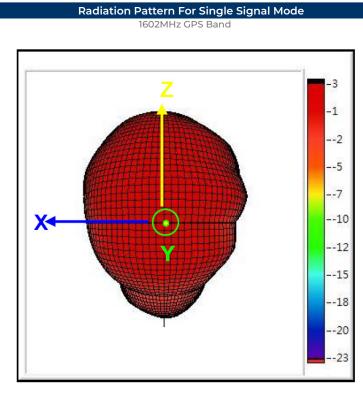
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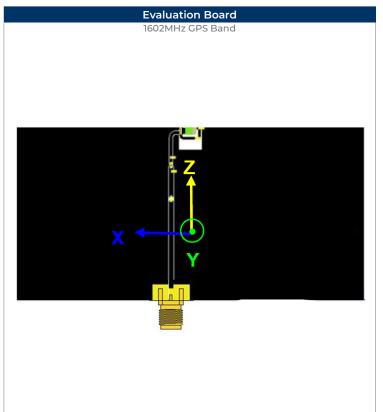
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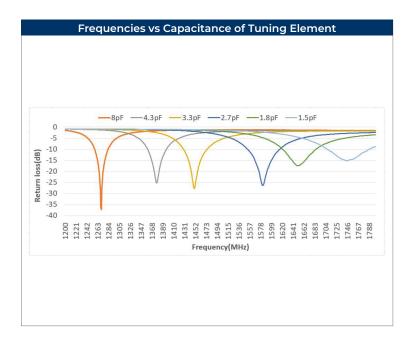


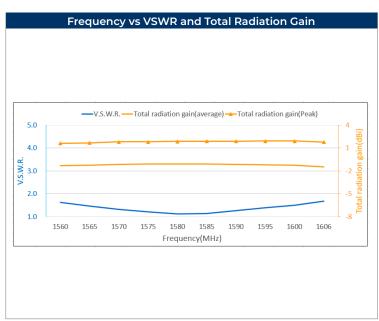


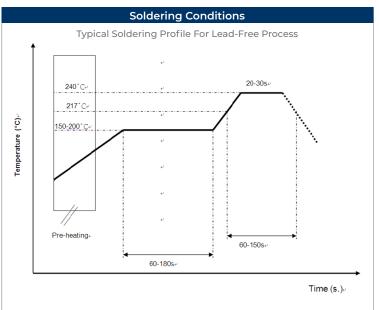


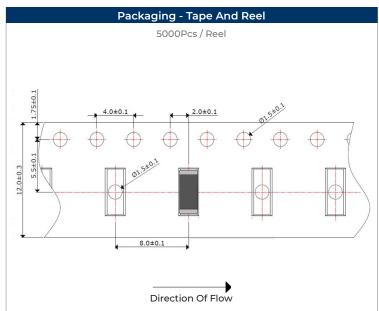












Environmental & Mechanical Specifications				
High Temperature Test	85°C for 500 hours, and then to normal temperature/humidity for 24hours.			
Low Temperature Test	-30°C for 500 hours, and then to normal temperature/humidity for 24hours.			
Humidity Test	85°C / 90-95%RH for 96 hours, and then to normal 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.			