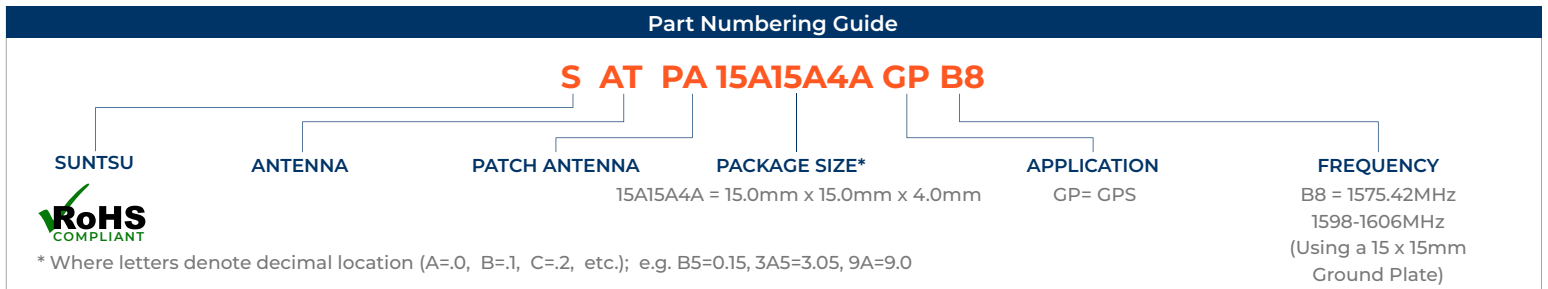


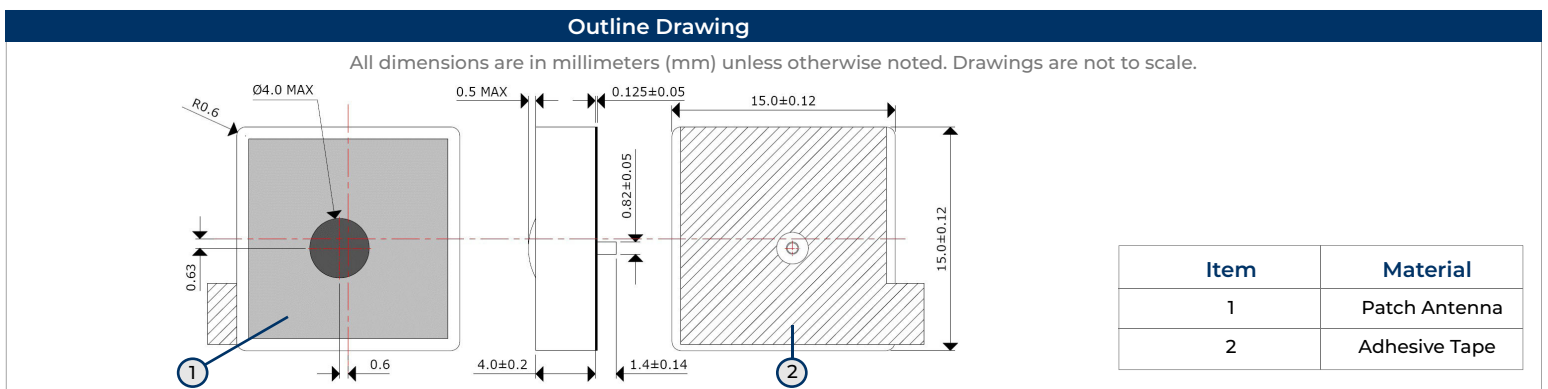
Features
<ul style="list-style-type: none"> • GPS & GLONASS • Low Temperature Coefficient Of Frequency • Stable And Reliable Performance • 1575.42MHz & 1598-1606MHz • Compact Size With Efficient Reception

Applications
<ul style="list-style-type: none"> • Satellite Navigation And Tracking Systems • Vehicle/Vessel Management Systems • Base Station Of Cellular Phone Systems • Smart Hand Held Devices • For Use With A 15mm x 15mm Ground Plate



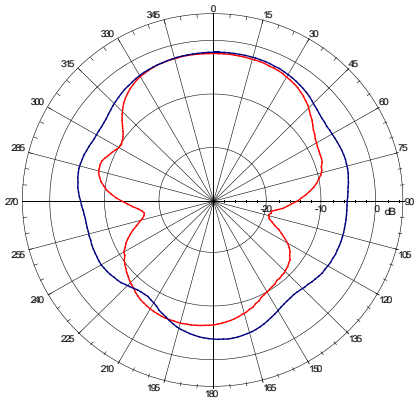
Electrical Parameters (GPS)	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz		1575.42		
Impedance	Ω		50		
Polarization			RHCP		
Peak Gain	dBi		-2.3		At 1575.42MHz
Freq. Temp. Coefficient	ppm/°C			0 ±20	
VSWR				2	At Center Frequency
Operating Temperature	C	-40		85	

Electrical Parameters (GLONASS)	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	1598		1606	
Impedance	Ω		50		
Polarization			RHCP		
Peak Gain	dBi		-1.7		At Center Frequency
Freq. Temp. Coefficient	ppm/°C			0 ±20	
VSWR				2	At Center Frequency
Operating Temperature	C	-40		85	



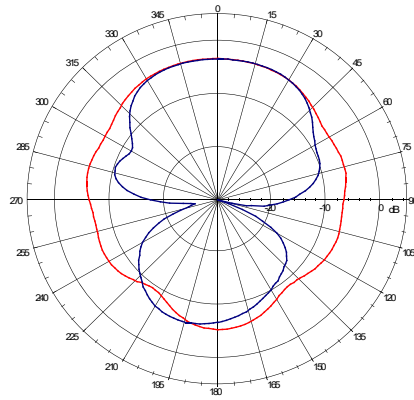
Radiation Pattern

1575.42MHz



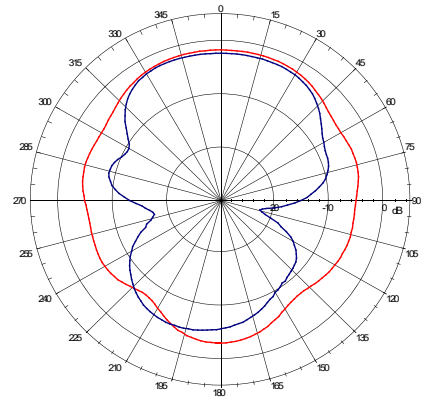
Radiation Pattern

1598MHz



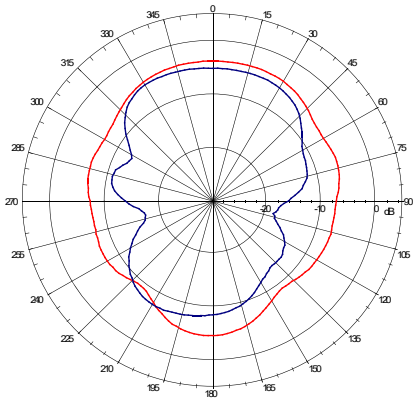
Radiation Pattern

1602MHz

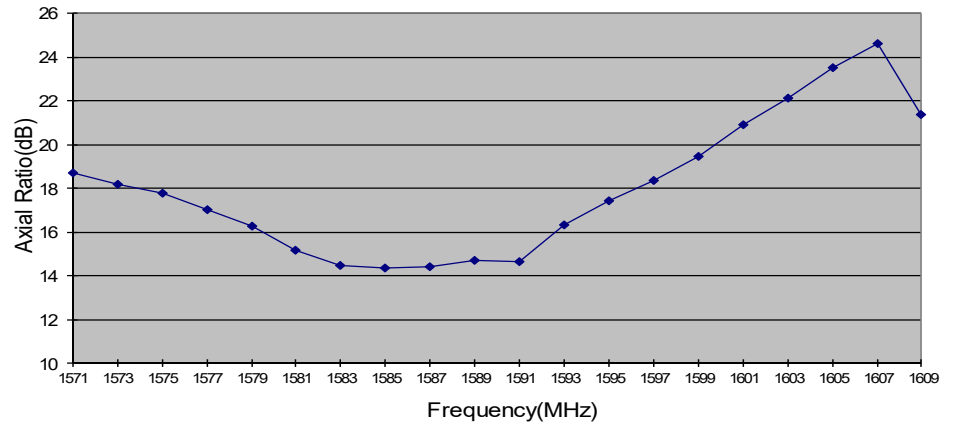


Radiation Pattern

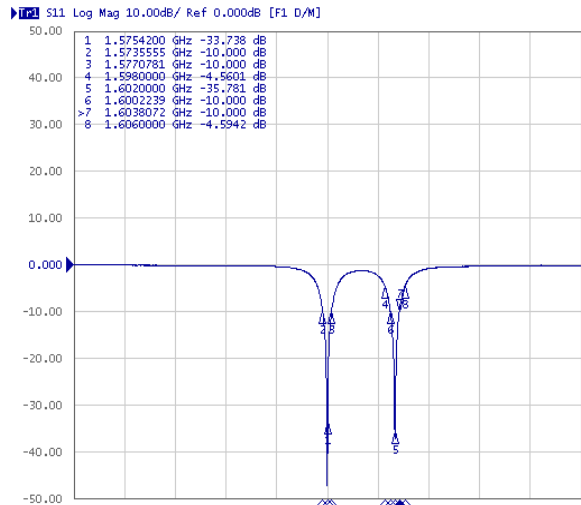
1606MHz



Axial Ratio (15MM X 15MM Ground Plane)



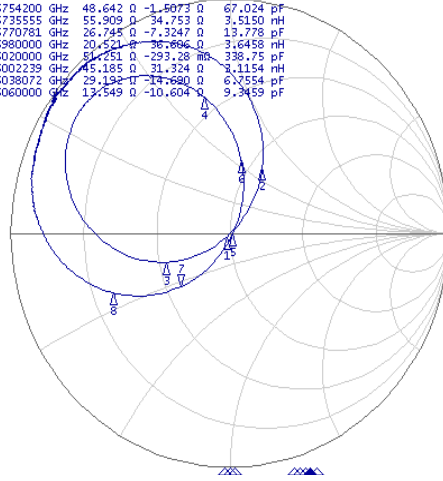
Return Loss



Smith Chart

▶ S11 Smith (R+jX) Scale 1.0000 [F1 D/M]

1	1.5754200 GHz	48.642 Ω	-1.5073 Ω	67.024 pF
2	1.5735555 GHz	55.909 Ω	34.753 Ω	3.5150 nH
3	1.5770781 GHz	26.745 Ω	-7.3247 Ω	13.778 pF
4	1.5980000 GHz	20.521 Ω	-36.866 Ω	3.6458 nH
5	1.6020000 GHz	54.251 Ω	-293.238 Ω	338.75 pF
6	1.6002239 GHz	45.185 Ω	31.324 Ω	3.1154 nH
>7	1.6038072 GHz	29.192 Ω	-14.680 Ω	6.7554 pF
8	1.6060000 GHz	13.549 Ω	-10.604 Ω	9.3459 pF



Environmental & Mechanical Specifications

High Temperature Test	85°C for 240 hours, and then to normal temperature/humidity High Temperature Test for 24hours.
Low Temperature Test	-30°C for 240 hours, and then to normal temperature/humidity for 24hours.
Humidity Test	85°C / 90-95%RH for 48 hours, and then to normal temperature/humidity for 24hours.