



Product Parameter

Product Model: GPS-A
 Connector or Cable: RG174,L=3M
 Cable Gain: ±2DB

Dielectric Antenna			
Center Frequency	1575.42±3 MHz		
V. S. W. R	2:1		
Band Width	±5 MHz		
Impedence	50Ω		
Peak Gain	> 3dBic Based on 7×7cm ground plane		
Gain Coverage	> -4dBic at -90°<0<+90°(over 75% Volume)		
Polarization	RHCP		
LNA/Filter			
LNA Gain Without cable		28dB Typical	
Noise Figure		2.0dB	
Filter Out Band Attenuation		(f0=1575.42MHz)	
		7dB Min	f0+/-20MHz;
		20dB Min	f0+/-50MHz;
		30dB Min	f0+/-100MHz
V. S. W. R		<2.0	
DC Voltage		3V, 5V, 3V to 5V	
DC current		7-10MA	
Mechanical			
Weight	60gram		
Size	45X38X15mm		
Cable Type	RG174		
	1~5Meters		
Connector	SMA,MCX,MMCX, SMB		
Mounting	Magnetic or sticker		
Housing	Black		

Environmental

Working Temp -40°C~+105°C

2. Waterproof test: place the GPS Antenna under the tap for 4 hours with water rush in the shell; 4 hours after the product was picked up, there is no water at the bottom of the phenomenon, indicating that this product has a good waterproof function.

3. Vibration Sine sweep 1g(0-p)10~50~10Hz each axis

4. Humidity 95%~100%R

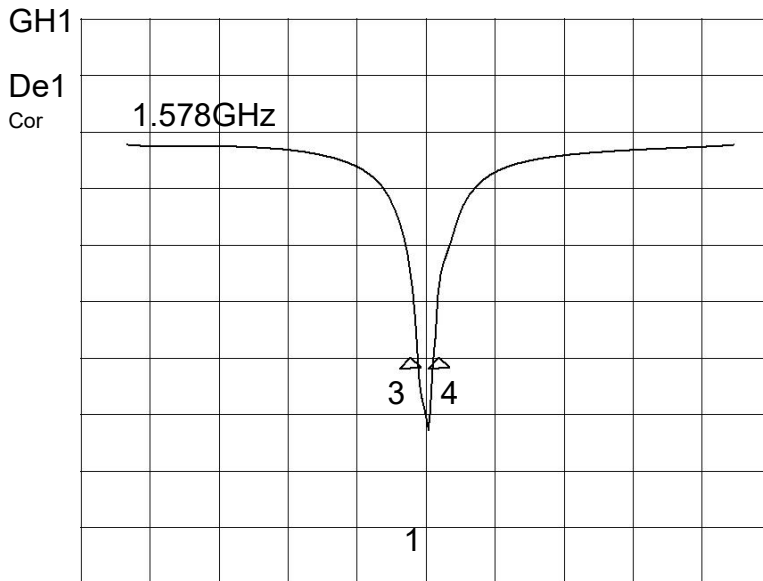


Test data and graph

1. GPS Antenna

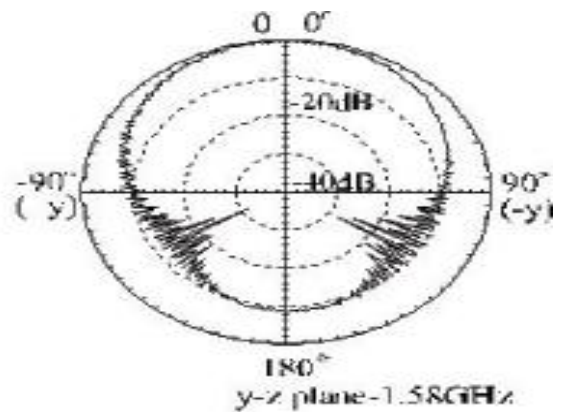
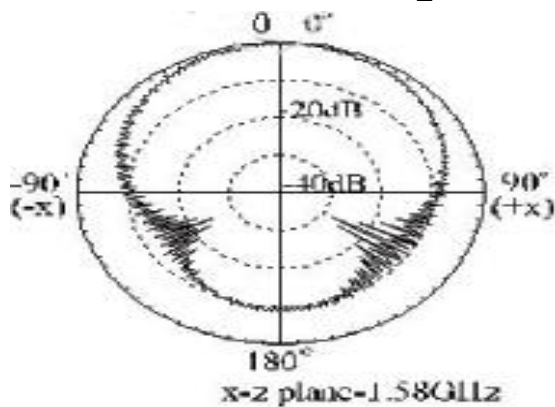
13Apr200209:45:461:-21.775dB

HEMLOG 5 Db/REF-15Db 1:28.970Db 1575.000 000 MHz



2. (DAE1575R2540A Directional test)

2



Axial Ratio: The value of the blue font is controlled within 3dB

-1.000	0.000	-0.266	-146.496
0.000	0.000	-0.599	-43.376
1.000	0.000	0.000	62.116

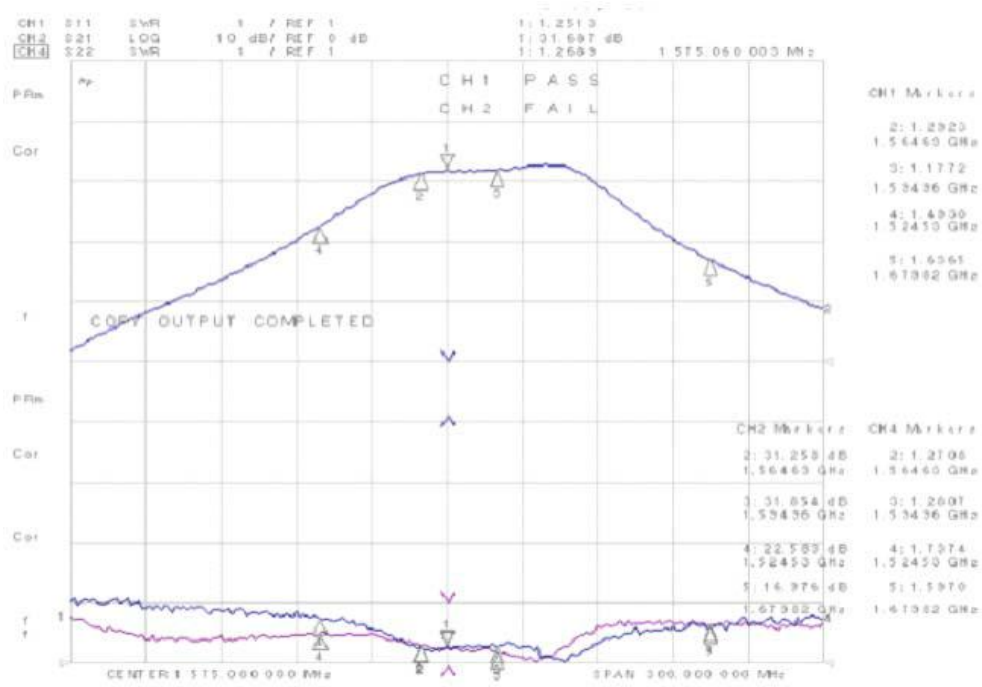
Gain:(plot)+47
 =-
 43.513+47
 =3.487

-1.000	0.000	-0.197	-48.904
0.000	0.000	-0.369	55.557
1.000	0.000	0.000	190.098

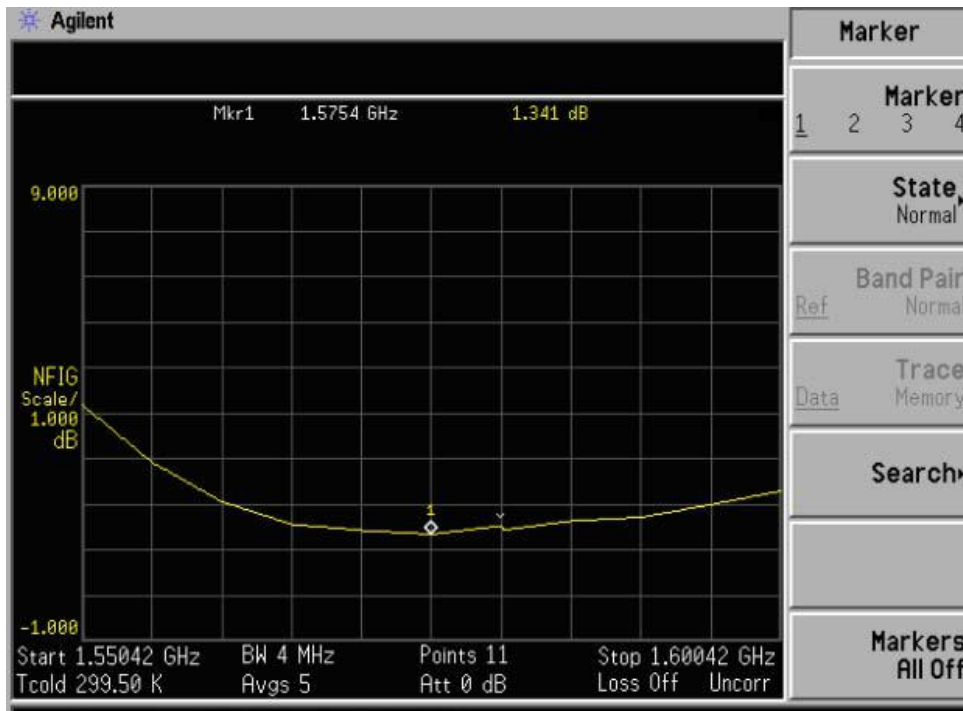
Gain:(plot)+47
 =-
 43.692+47
 =3.308



LNA Test Curve



Noise Figure Test Plans





Exterior Picture





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