

GPS & 3G MIMO Combo External Antennas

Product Number: ATG3G7214-2.0BM

1. Picture



2. Electrical Characteristics

2.1 GPS Antenna		
1	Antenna model	2540A (25mm*25mm*4mm)
2	Frequency Range	1575.42MHz±1.02 MHz
3	V.S.W.R	< 2.0
4	Band With@10dB	> 10MHz
5	Gain	5.0 dB typ @70mm*70mm groundplane
6	Impedence	50Ω
7	Polarization	RHCP
LNA		
1	Frequency Range	1575.42MHz±1.02 MHz
2	DC Voltage	2.2~5.0V
3	DC current	11±2mA(@3.0V)
4	Gain	28±3 dB(without cable @25°C±10°C)
5	Output VSWR	2.0 MAX
6	Noise Figure	2.1 MAX
2.2 GSM & 3G Antenna		
1	Frequency Range	824~960MHz/1710~2170MHz
2	V.S.W.R	< 2.0
3	Gain	2.0 dB
4	Impedence	50Ω
5	Polarization	LINEAR

3. Material

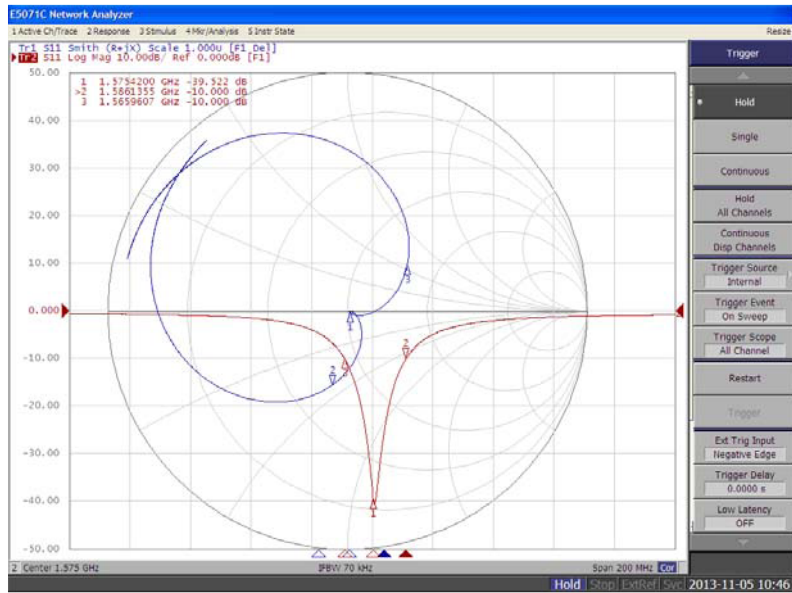
No	Part Name	SPEC
1	GPS Antenna	Dielectric Ceramics
2	Shielding	Tinplate
3	PCB	FR4
4	GSM & 3G Antenna	FR4
5	Sheathing	ABS (black)
		$\phi 72 \times 14.3\text{mm}$
6	RF Cable	RG174
		L=3M OR Others
7	RF Connector	SMA-MALE OR Others

4. Environment Condition

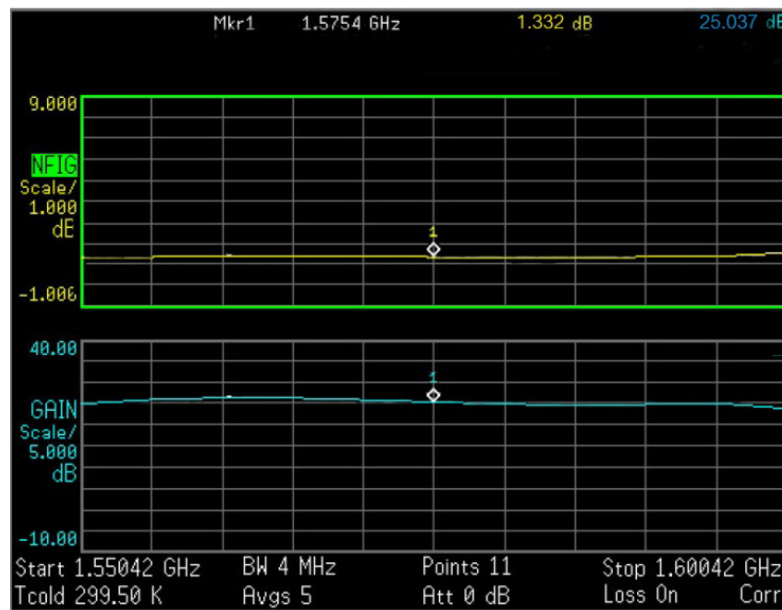
1	Working Temp	-40°C ~ +85°C, 10% ~ 95% RH
2	Storage Temp	-55°C ~ +100°C, 10% ~ 95% RH
3	Vibration	Sine sweep @1.5mmAM 10~55Hz each Axis
4	Waterproof	IP66

5. Testing Curve

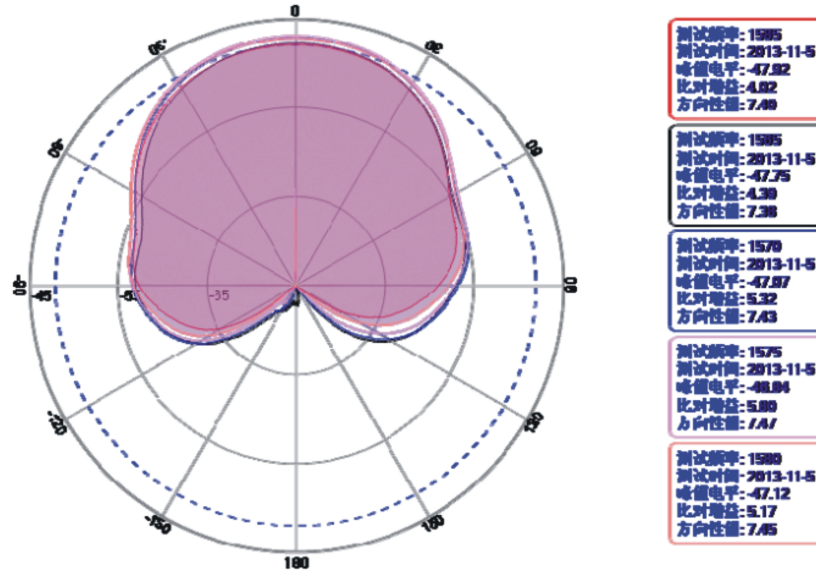
5.1 GPS Antenna Characteristic curve



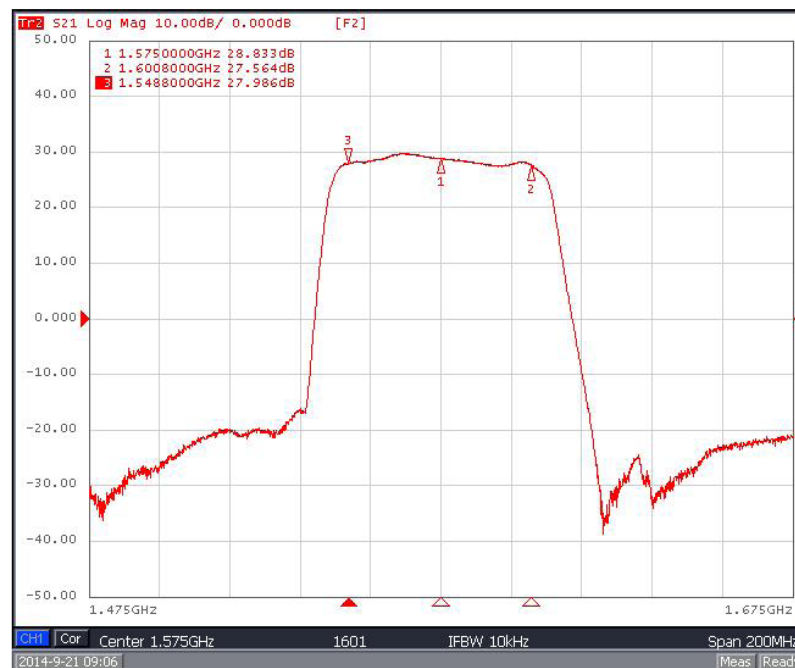
5.2 GPS Antenna Noise Figure



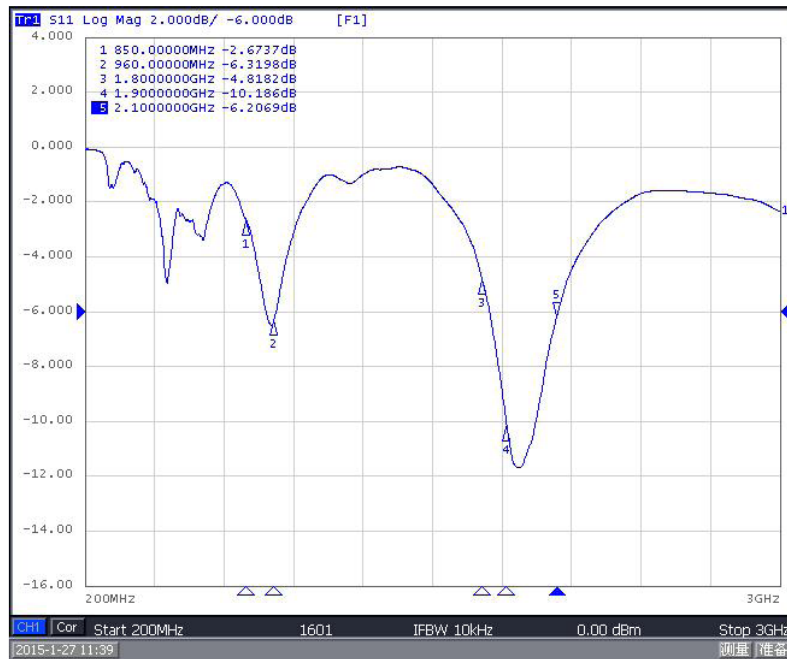
5.3 GPS Antenna Directional diagram



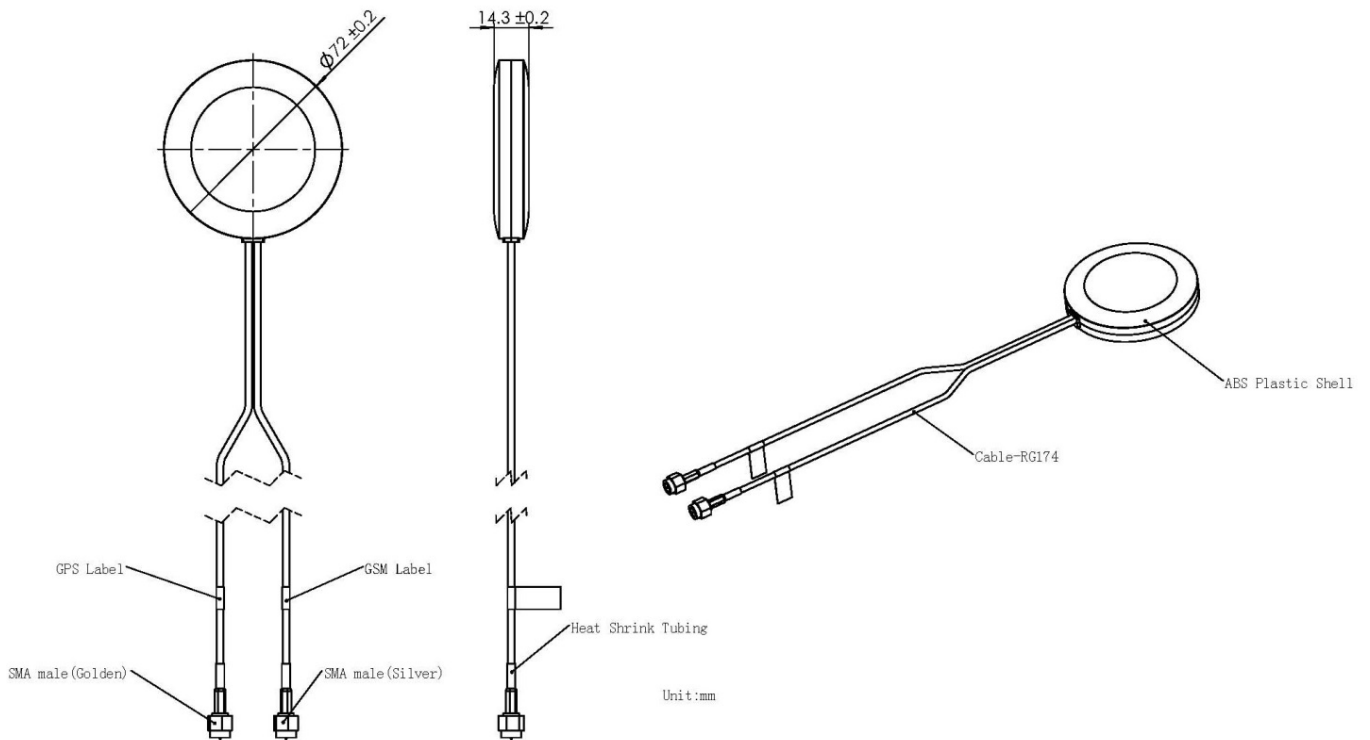
5.4 LNA Gain



5.5 GSM & 3G Antenna Characteristic curve



6. Structure



7. Note

7.1 This product specification guarantees the quality of our product as a single unit.

Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.

7.2 The product will get free warranty for one year since the date of purchase as well as users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.

7.3 Electrostatic sensitive device. Observe precautions for handling.