

GPS & GLONASS External Active Antennas

Product Number: ATGG4336 (Adhesive Mount)

ATGG4336M (Magnetic Mount)

1. Picture



2. Parts Numbering

ATG	Туре	LLWW (Dimension in mm)	Mount	_	Connector	_	Length of Cable (M)
	Blank : GPS	4638 : 46*38*13.0(H) mm	Blank : Adhesive	_	SMA : SMA,Male		3 : 3M
	G: GPS & GLONASS	4336 : 43*36 *13.5(H) mm	M : Magnetic		SMAR : SMA Right-Angle,Male		5 : 5M
	B : GPS & BDS				SMB : SMB,Male		:
	GB: GPS+GLONASS+BDS				SMBR : SMB Right-Angle,Male		:
					SMC : SMC,Male		
					MCX : MCX,Male		
					MMCX : MMCX,Male		
					FAKRACB : FAKRA,C,Blue		
					FAKRADV : FAKRA,D,Violet		
					N : None		
					:		



ATGG Series

3. Electrical Characteristics

Antenna			
1	Antenna model	2540A(25mm*25mm*4mm)	
	F	GPS: 1575.42MHz±1.023MHz	
2	Frequency Range	GLONASS: 1609.3 MHz±5MHz	
3	V.S.W.R	V.S.W.R 2.0 MAX	
		GPS : 5MHz MIN	
4	Band With@10dB	GLONASS : 10MHz MIN	
		GPS: 3.0 dB typ @70mm*70mm groundplan	
5	Gain	GLONASS : 4.0 dB typ @70mm*70mm	
		groundplane	
6	Impendence	50Ω	
7	Polarization	RHCP	
LN	LNA		
	F	GPS: 1575.42MHz±1.023MHz	
1	Frequency Range	GLONASS: 1609.3 MHz±5MHz	
2	DC Voltage	DC Voltage 2.8 ~ 5.0V	
3	DC current		
		GPS: 28±3dB(without cable @25°ℂ±10°ℂ)	
4	Gain	GLONASS: 28±3dB(without cable @25°ℂ±10°ℂ)	
5	Output VSWR	2.0 MAX	
6	Noise Figure	2.2 MAX	

4. Material

No	Part Name	SPEC		
1	Patch Antenna	Dielectric Ceramics		
2	Shielding	Tinplate		
3	PCB	FR4		
4	Sheathing	ABS (black)		
4		42.6mm×36.4mm×13.5mm		
_	DE Oakla	RG174		
5	RF Cable	L=3M		
6	RF Connector	SMA-MALE (Optional)		
7	Adhesive	3M		

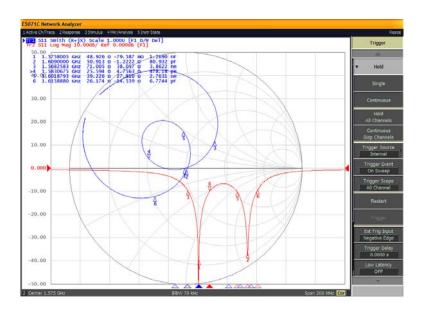


5. Environment Condition

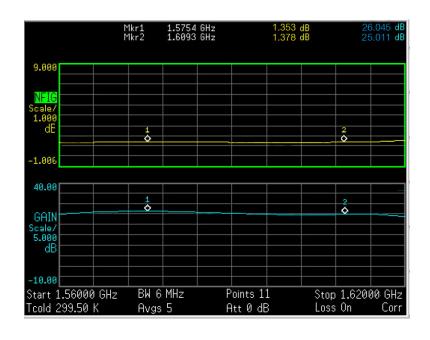
1	Working Temp	-40°C ∼+85°C, 10%∼95% RH
2	Storage Temp	-55°C ∼+100°C, 10%∼95% RH
3	Vibration	Sine sweep @1.5mmAM 10~55Hz each Axis
4	Waterproof	IP67

6. Testing Curve

6.1 Patch Simth & VSWR

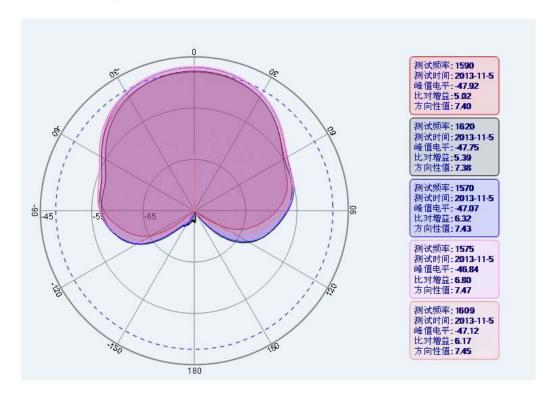


6.2 Noise Figure

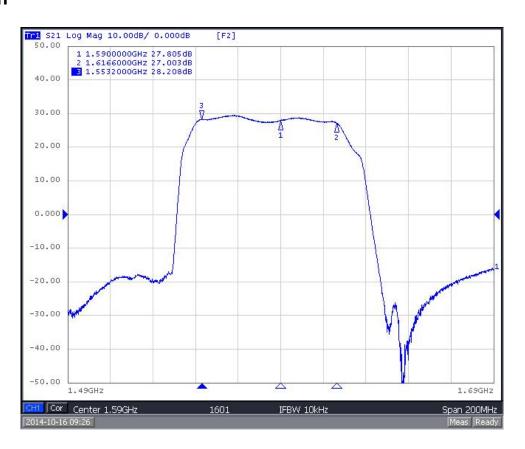




6.3 Patch Directional diagram



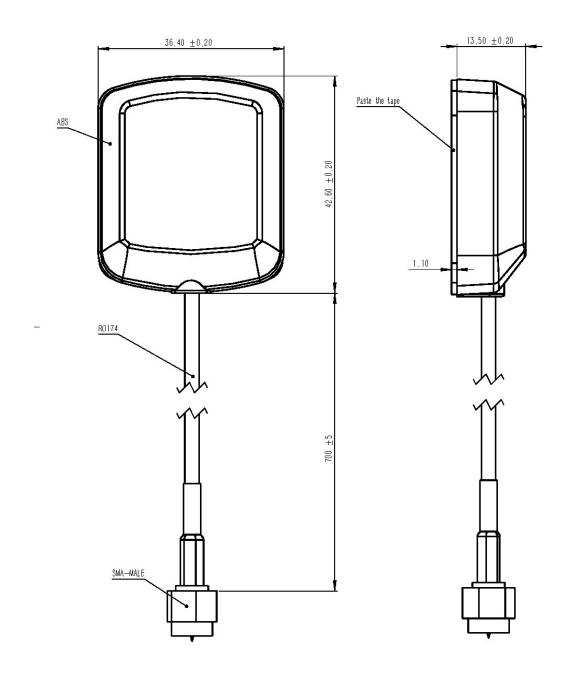
6.4 LNA Gain







7. Drawing





ATGG Series

8. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements	
C1	S.W.R.	Set DUT on Network Analyzer; make individual	Directive DUT specification	
		calibration to test		
C2	Antenna	Set DUT on Antenna Chamber; make individual	Directive DUT specification	
	Gain	calibration to test		
М1	Vibration	MIL-STD-202G, 201A	1. No Visual Damage	
		Amplitude: 0.03 inch (0.76mm); Freq: 10 to 55 Hz	2. Frequency Tol.<= 5%	
		3 directions; 2 hours for each direction		
M2	Random	Height: 1.5 Meter;	1. No parts separated	
	Drop	3 directions; 1 time for each direction	2. Frequency Tol.<= 5%	
М3	Solderability	MIL-STD-202G, 210F, cond. A	1. Mounted on PCB	
		Solder iron: 350±10°C; Duration: 5 seconds	2. No Visual Damage	
M4	Terminal-	MIL-STD-202G, 211A, cond. A	1. Directive DUT specification	
	Pull Test	Holding with individual specification; force applied	2. Frequency Tol.<= 5%	
		to axis of terminal		
M5	Terminal-	MIL-STD-202G, 211A, cond. E	1. Directive DUT specification	
	Torque Test	Holding with individual specification; applied	2. Frequency Tol.<= 5%	
		clockwise and counterclockwise to the axis of		
		terminal		
М6	Dimension	Inspection of dimension, color, material, package,	Directive DUT specification	
		surface process		
E1	Salt Spray	MIL-STD-202G, 101E, cond. B	After 2 Hours Recovery	
		Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%;	1. No Visual Damage	
		Time: 48 hours	2. Frequency Tol.<= 5%	
E2	Humidity	MIL-STD-202G, 103B, cond. B	After 2 Hours Recovery	
	-	Temp: 40°C; RH: >= 95%; Time: 48 hours	1. No Visual Damage	
			2. Frequency Tol.<= 5%	
E3	Thermal	1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes)	After 2 Hours Recovery	
	Shock	Cycles: 24	1. No Visual Damage	
			2. Frequency Tol.<= 5%	
E4	Life (High	MIL-STD-202G, 108A, cond. A	After 2 Hours Recovery	
	Temp.)	Temp: 85°C; Time: 96 hours	1. No Visual Damage	
	. ,		2. Frequency Tol.<= 5%	
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2002/95/EC	
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC	
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC	
	1	The residual to Cort El A Concernio by Lormo	JOLITO IXOLIO EUUDI IEE/EU	





9. Note

- 8.1 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.
- 8.2 The product will get free warranty for one year since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.
- 8.3 Electrostatic sensitive device. Observe precautions for handling.