REYAX
TECHNOLOGY CORPORATION, LTD

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RYAGN3I

High Performance Active GPS And Glonass Antenna

Datasheet



Represented by:

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PRODUCT DESCRIPTION

The high performance RYAGN3I active GPS and Glonass antenna with integrated low-noise amplifier (LNA) is the perfect match to any GPS and Glonass receivers where high sensitivity and optimum sky coverage are essential.

FEATURES

- Built-in low noise amplifier with 20dB gain and 0.65dB noise figure
- 3M coaxial cable
- Magnetic base suitable for mounting on car roof
- Industrial temperature range: –40° C to +85° C
- Wide range of supply voltage: +2.7 to 3.4 V
- Low power consumption (3.6mA)
- Variable connector and cable length are available
- 2KV HBM ESD Protection(including AI-pin)

BENEFITS

- Easy to use
- Compact size
- High performance
- Fast and easy integration
- No antenna know-how necessary

STANDARD RF CONNECTOR

- SMA nickel plating



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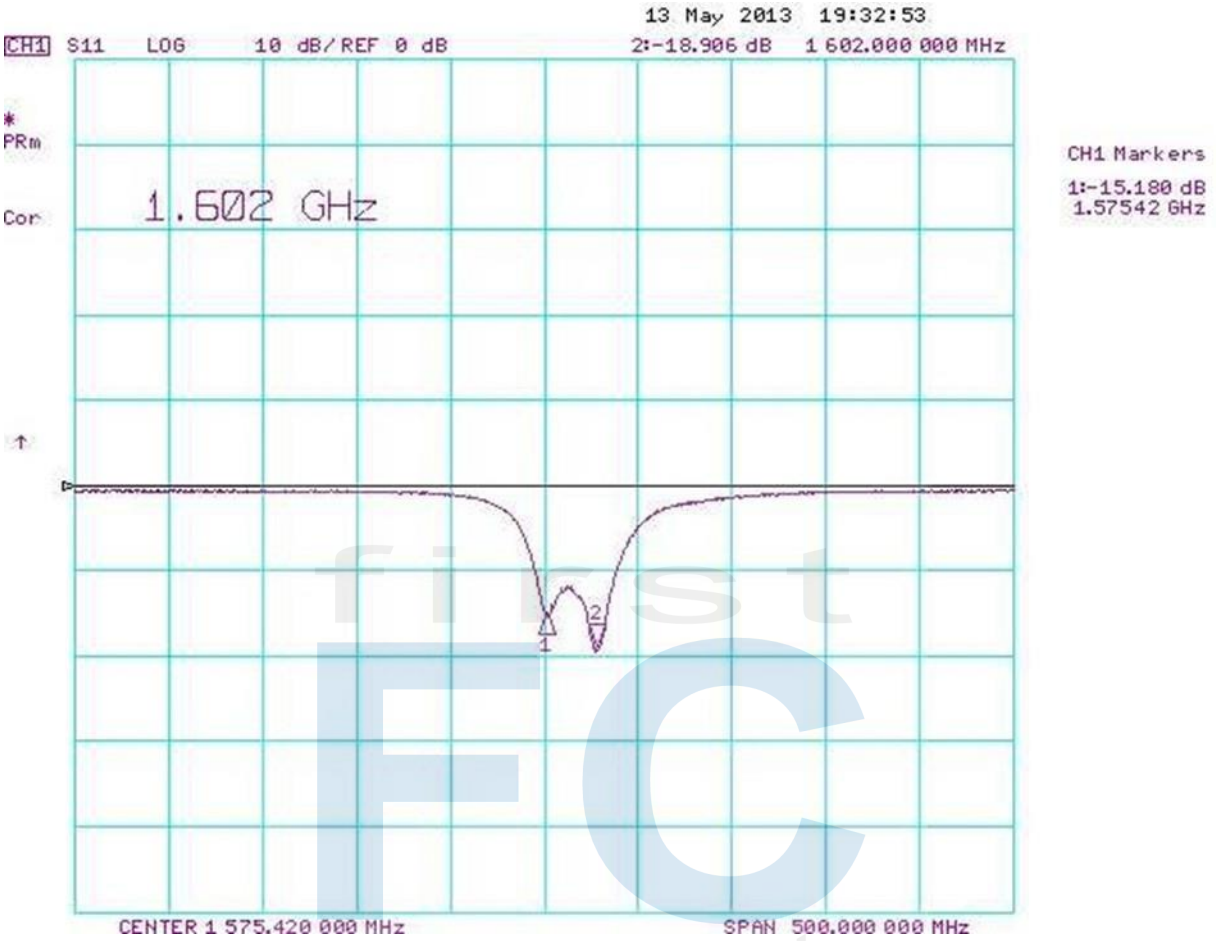
SPECIFICATION

Item	Min.	Typ	Max.	Unit	Condition
Operation Voltage	2.7	3.3	3.4	V	
Current		3.6		mA	
Center Frequency	1575.42		1602	MHz	GPS and Glonass
Bandwidth		10		MHz	@S11 = -10 dB
Antenna Impedance		50		Ω	
Polarization					R.H.C.P
Gain		20		dB	
Noise Figure		0.65		dB	
VSWR			2		
Axial Ratio			3	dB	
Cable		3		M	RG174 Standard
Operating Temperature	-40	25	+85	˚C	
Body Dimensions					45.5mm*34.2mm*15mm
Waterproof Level					IEC/EN 60529 IPx8
Mounting					Magnetic base
Housing color					Black
Antenna					External

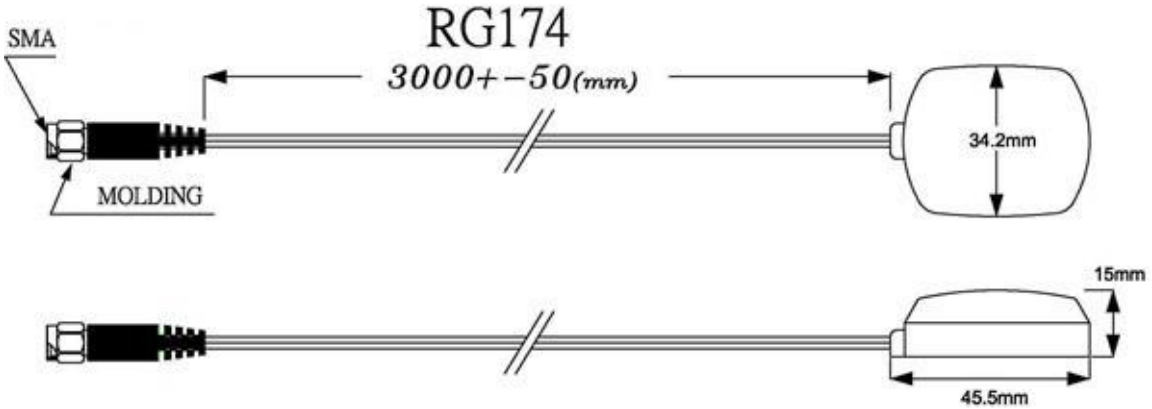
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RETURN LOSS



DIMENSION



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WATERPROOF TEST


Attachment 1 : Photo of units


Attachment 2 : Photo of continuous immersion test setup





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