

1575.42 MHz GPS Active Antenna

Key Features:

Center Frequency:	1575.42 MHz (+/-3 MHz)
High Gain:	27 dB
Low Noise Figure	1.5 dB
Single DC Supply:	12 mA @ +3 to +5V
Package:	Magnetic mount, 3 meter cable, SMA male
Built-in Functions	Built-in filter, Bias-T

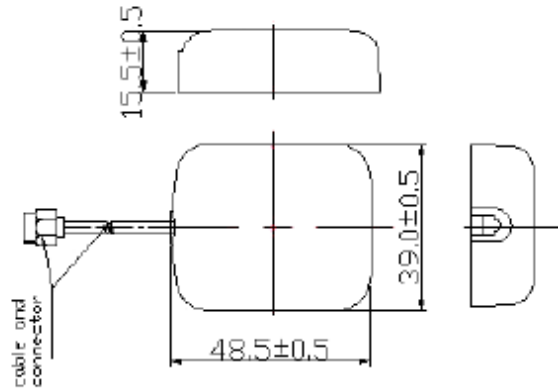


Product Specifications¹: (at +25°C)

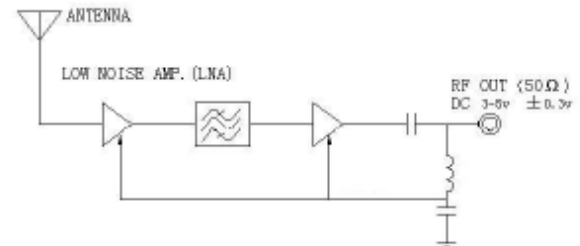
Testing Item	Test Condition	Min	Nom	Max	Unit
Antenna Specifications					
Center Frequency (Fo)		1572.42	1575.42	1578.42	MHz
Frequency Bandwidth (BW)			+/- 5		MHz
VSWR	1575.42 MHz		1.5:1		
Off Band Attenuation	Fo +/- 100 MHz	30			dB
Impedance			50		ohms
Peak Gain	Based on 7x7 cm ground plane	30			dBic
Gain Coverage	-90° < 0 < +90°(over 75% Volume)	-4			dBic
Polarization			RHCP		
LNA Specifications					
Gain (G)	1575.42 MHz		27		dB
Noise Figure (NF)	1575.42 MHz		1.5		dB
VSWR	1575.42 MHz			2.0:1	
DC Voltage		2.7		5.3	V
DC Current			12	15	mA
Environmental Specification					
Working Temperature		-40		+85	oC
Storage Temperature		-40		+100	oC
Vibration	Sine sweep (0-pk) 10~50~10 Hz each axis		1		g
Humidity		95%		100%	RH
Weatherproof			100%		
MTBF			TBD		
Mechanical Specification					
Weight				100	gram
Size			50x39x16		mm
Cable			3		meters
Connector			SMA		
Mounting			Magnetic base		
Color			Black		

¹ Specifications are subject to change without notice

Outline Drawing (in mm)



Block Diagram



Ordering Information

Part Number	RANG001312G
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