

1575.42 MHz GPS Active Antenna



Key Features:

Center Frequency:	1575.42 MHz (+/-3 MHz)
High Gain:	29 dB
Low Noise Figure	1.5 dB
Single DC Supply:	15.5 mA @ +3 V
Built-in Functions:	Built-in filter, Bias-T
Package:	Waterproof , magnetic mount, 5 meter cable

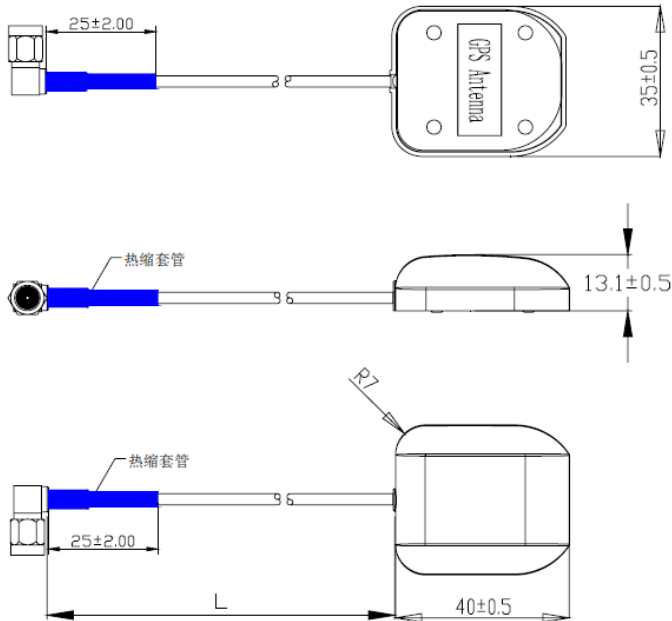
Note: Other types of connectors are available upon request

Product Specifications¹: (at +25° C)

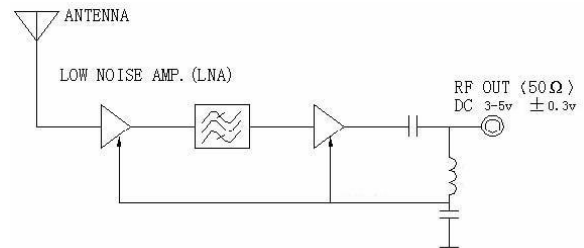
Testing Item	Test Condition	Min	Nom	Max	Unit
Antenna Specifications					
Center Frequency (Fo)		1572.42	1575.42	1578.42	MHz
Frequency Bandwidth (BW)		10			MHz
VSWR	1575.42 MHz		1.5:1		
Off Band Attenuation	Fo +/- 100 MHz	30			dB
Impedance			50		ohms
Peak Gain	Based on 7x7 cm ground plane		5		dBic
Gain Coverage	-90° < 0 < +90°(over 75% Volume)	-4			dBic
Polarization			RHCP		
LNA Specifications					
Gain (G)	1575.42 MHz		29		dB
Noise Figure (NF)	1575.42 MHz		1.5		dB
VSWR	1575.42 MHz			2.0:1	
DC Voltage		2.7	3.0	5.3	V
DC Current			15.5		mA
Environmental Specification					
Working Temperature		-25		+65	°C
Storage Temperature		-45		+185	°C
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			40x35x13		mm
Cable			5		meters
Connector		Right Angle SMA male			
Mounting		Magnetic base			
Color		Black			

¹ Specifications are subject to change without notice.

Outline Drawing (in mm)



Block Diagram



Ordering Information

Part Number	RANG002514G
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