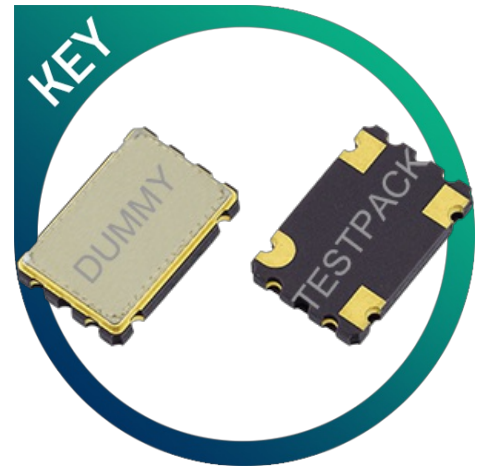


# GNBA-107T

## GPS antenna with low noise amplifier (LNA)

- One module antenna with LNA
- Specific LNA for GPS
- Excellent antenna radiation characteristics
- Good gain specifications



### CONFIGURABLE OPTIONS

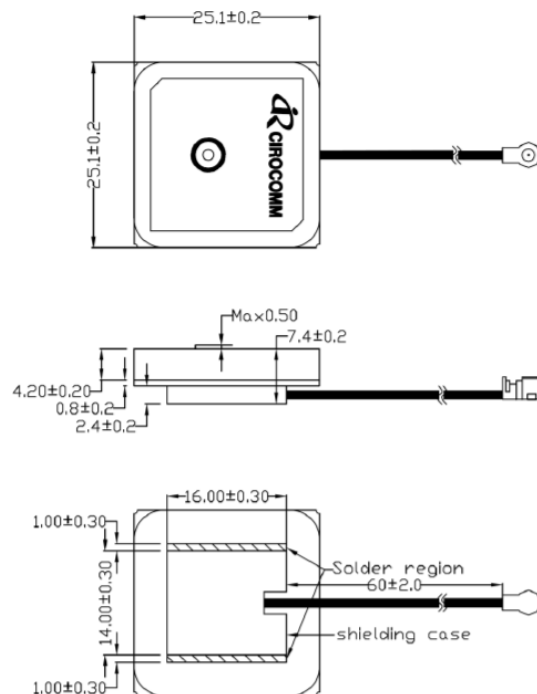
Parameter	Option Code
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The GNBA-107T is provided with all options configured as standard and therefore there are no configurable options for this product.

### SPECIFICATIONS

TEST 3	
TEST 1	
TEST 2	
TEST 4	
TEST 5	
ENVIRONMENTAL CONDITIONS	
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-40 to +105°C
ELECTRICAL SPECIFICATIONS	
Minimum Supply Voltage	1.8V
Maximum Supply Voltage	5.5V
CABLE & CONNECTOR	
RF Cable	RF Coaxial Cable = 1.13±0.1mm L = 68±2mm
RF Connector	I-PEX
ANTENNA	

### PACKAGE DRAWING



Unit:mm  
Tolerance : +/- 0.2

Antenna Dimensions	25 x 25 x 4mm
Frequency Range	1574~1610MHz
Gain	1575.42MHz: -1.5dB typ. @ zenith 1602MHz: +0dB typ. @ zenith
Polarization	RHCP
Axial Ratio	Max. 3.0dB @ zenith
<b>LNA &amp; FILTER</b>	
Output Impedance	50Ω
Outer Band Attenuation	1592±140MHz 15dB min.
P <sub>out</sub> @ 1dB Gain Compression Point	-6dB min. -2dB typ.
Output VSWR	2.0 max.
<b>TOTAL SPECIFICATIONS (THROUGH ANTENNA, LNA, CABLE AND CONNECTOR)</b>	
Frequency Range	1574 ~ 1610MHz
Gain @ 90°	1575.42MHz: 26.5±3dBic 1602MHz: 28±3dBic
Output Impedance	50Ω

## ORDERING INFORMATION

To request a quotation for the GNBA-107T please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at [sales@golledge.com](mailto:sales@golledge.com).

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

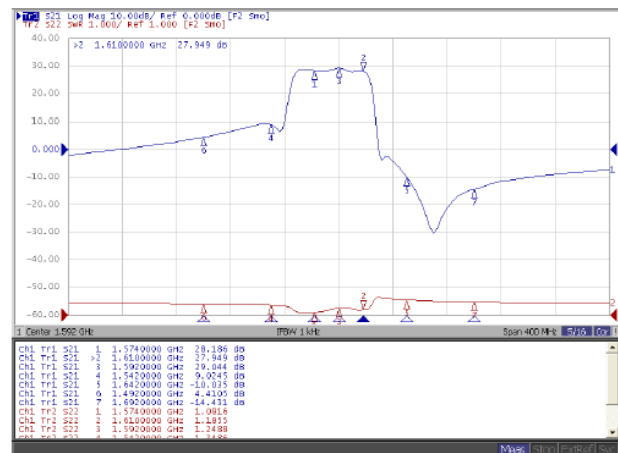
## TECHNICAL RESOURCES

LNA data.png  
Radiation patterns.png

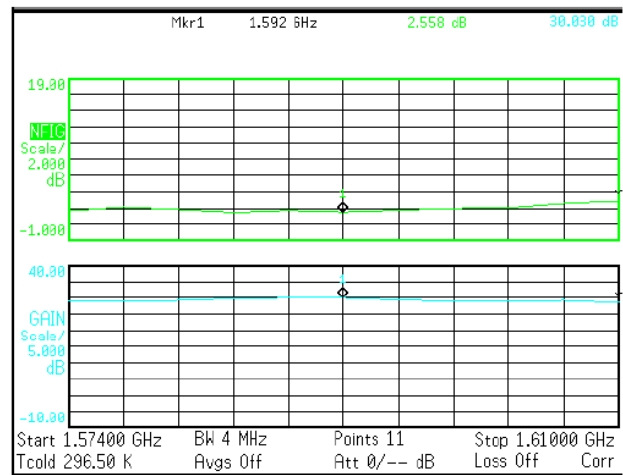
## TEMPERATURE CHARACTERISTICS

Voltage	LNA Gain (typ)	Power Consumption (mA) typ	Noise Figure (typ)
1.8V (min)	22dB	5mA	2.6dB
3.0V (typ)	28dB	10mA	2.6dB
5.5V (max)	31dB	23mA	2.9dB

## ENABLE / DISABLE FUNCTION

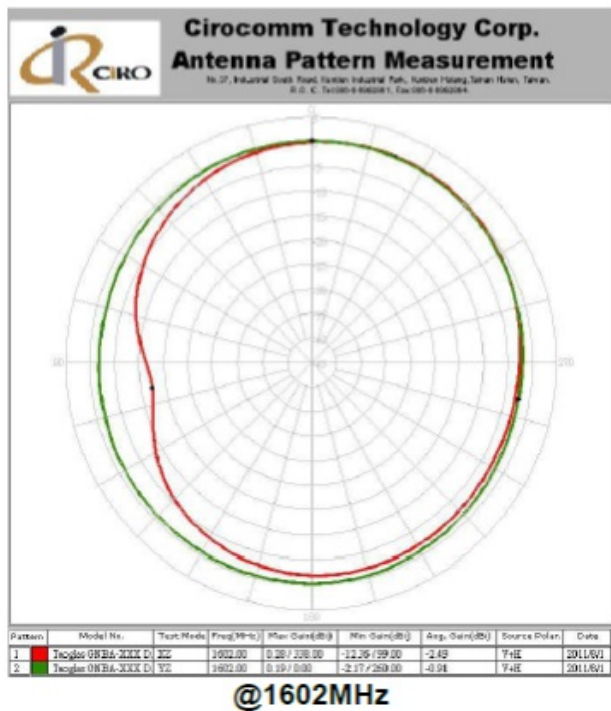
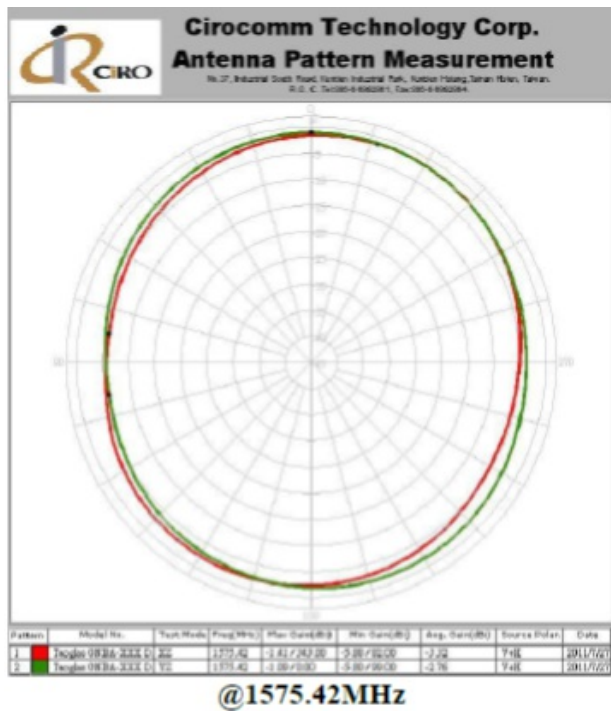


LNA Gain and Out Band Rejection @3.0V



LNA Noise Figure @3.0V

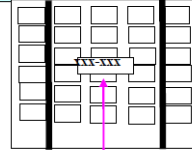
## STANDARD MODELS



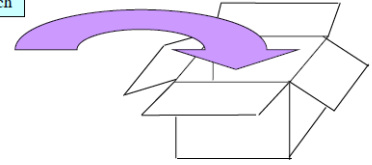
## TAPE & REEL SPECIFICATION

1080 Units / Carton

60pcs/Vacuum \*6 = 360pcs/Batch



Paste - Product name labels



360pcs/Batch\*3=1080 Units / Carton

## SUPPLY PARTNER

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nice cirocomm things

## OTHER INFORMATION

### About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).  
To take advantage of our highly praised service get in touch with us today.