

SPEC NO.	SP03BE15750-0660	ISSUED DATE	2014/06/19	PUBLISHED BY
PRODUCT NAME	GNBA-535A	VERSION	01	
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SPECIFICATION FOR GPS&GLONSS ANTENNA WITH LOW NOISE AMPLIFIER

1.0 SYSTEM:

This antenna system consists of two functional blocks, the LNA portion and the patch antenna.

2.0 GENERAL

2.1 ENVIRONMENTAL CONDITIONS

2.1.1	Operation Temperature	- 20°C to + 65°C
2.1.2	Storage Temperature	- 30°C to + 75°C
2.1.3	Relative Humidity	40% to 95%

2.2 ELECTRICAL SPECIFICATIONS

2.2.1	Input Voltage	Typ: 3V Max:5V
2.2.2	Current Consumption	Typ:10mA Max:25mA

2.3 CABLE & CONNECTOR

2.3.1	RF Cable	RF Coaxial Cable, ϕ 1.13 \pm 0.1mm, L =45+/- 2.0 mm
2.3.2	RF Connector	I- PEX (F)

3.0 ANTENNA

3.1	Antenna Dimensions	18mm*18mm*4mm
3.2	Frequency Range	1575.42 \pm 1.023 MHz. 1602 \pm 5 MHz.
3.3	GAIN@Center Frequency	+ 3dBic Typ. @zenith (70 \times 70 Ground)
3.4	Polarization	RHCP
3.5	Axial ratio	Max 4.0dB@zenith

4.0 LNA

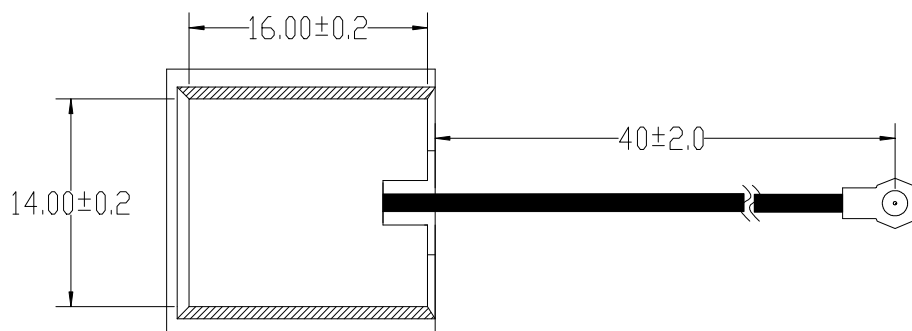
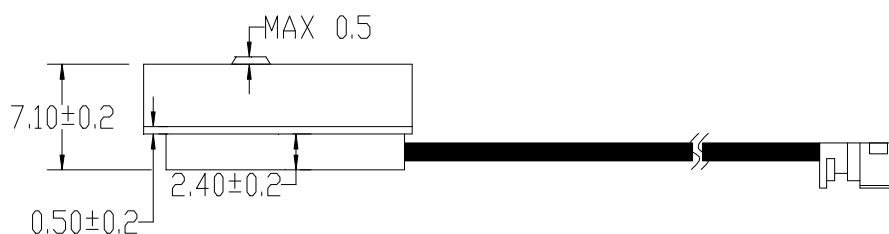
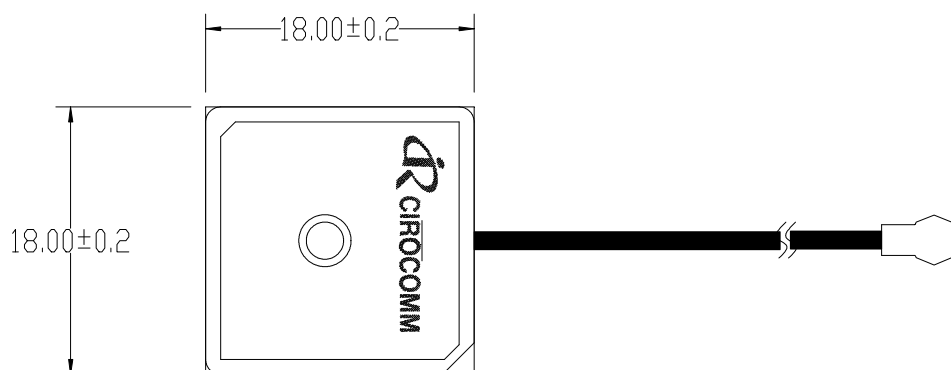
4.1	Frequency Range	1575.42 \pm 1.023 MHz 1602 \pm 5 MHz.
4.2	Gain	25 dB Min. 30 dB Typ.(+ 25 °C \pm 5°C)
4.3	Noise Figure	1.4 dB Typ. (+ 25 °C \pm 5°C) 1.8 dB Max. (+ 85 °C)
4.4	Output Impedance	50 Ω
4.5	Output VSWR	2.0 Max

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5.0 TOTAL SPECIFICATIONS (Through Antenna, LNA, Cable and Connector)

5.1	Frequency Range	1575.42 ± 1.023MHz 1602± 5 MHz.
5.2	Gain	At 90° 33 ± 4dBic
5.3	Output Impedance	50Ω
5.4	Output VSWR	2.0 Max

6.0 OUTLINE

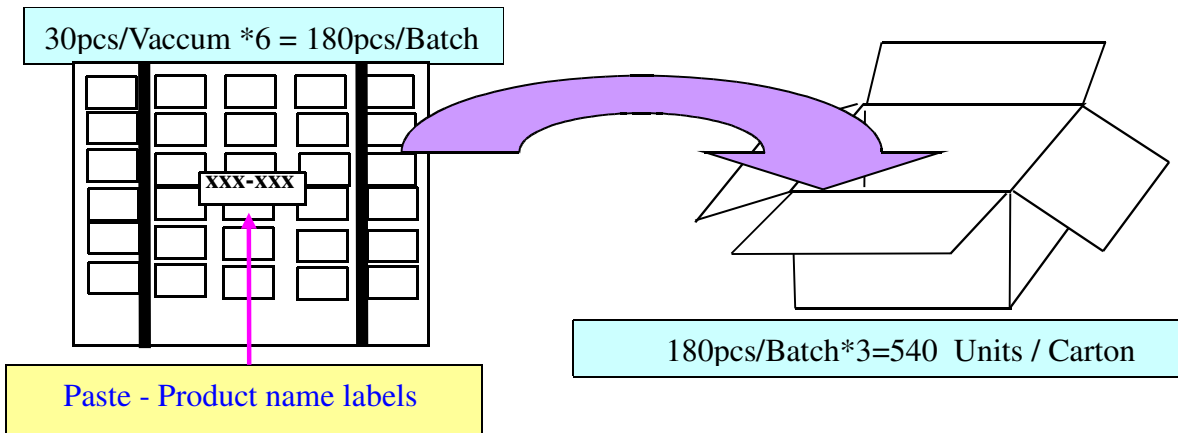


Unit:mm

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7.0 Package

7.1 540 Units / Carton

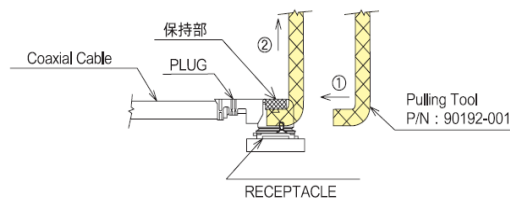


8.0 Plugs Usage Precautions

8-1 Mating / unmating

(1) To disconnect connectors, insert the end portion of I-PEX under the connector flanges and pull off vertically, in the direction of the connector mating axis.

(2) To mate the connectors, the mating axes of both connectors must be aligned and the connectors can be mated. The "click" will confirm fully mated connection. Do not attempt to insert on an extreme angle.



8-2 Pull forces on the cable after connectors are mated

After the connectors are mating, do not apply a load to the cable in excess of the values indicated in the diagram below.

