



SPECIFICATION

CUSTOMER PART NO.	:	340127000038
SPEC NO.	:	SP030315750-146
PART NO.	:	031015471EM0100
PRODUCT NAME	:	GPS Board /GBA-901
DESCRIPTION	:	3V/25dB/160mm/ I-PEX ROHS Compliant Product

SPECIFICATION FOR GPS 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	Min:2.7 V	Typ: 3.0V	Max:3.3V
2.2.2	Current Consumption	At 3.0 V	Typ: 13mA	Max: 15mA

2.3 CABLE & CONNECTOR

2.3.1	RF Cable	RF Coaxial Cable, ϕ 1.13 \pm 0.1mm, L =160 +/- 1.5 mm
2.3.2	RF Connector	I- PEX (F)

3.0 ANTENNA

3.1	Frequency Range	1575.42 \pm 1.023 MHz.
3.2	GAIN	- 1.5 dBi Typ. @zenith(13.4mm*13.4mm Grand)
3.3	Polaration	RHCP
3.4	Axialration	Max 4.0dB @zenith



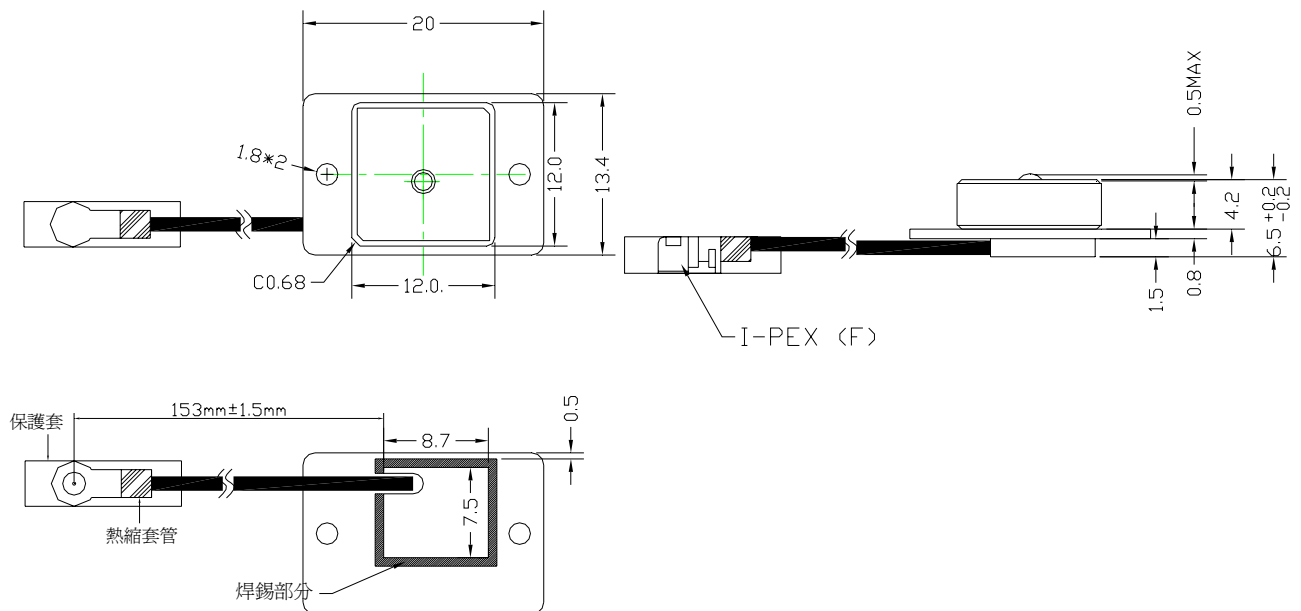
4.0 LNA

4.1	Frequency Range	1575.42 ± 1.023 MHz
4.2	Gain	24 dB Min. 25 dB Typ.(+ 25 °C ± 5°C)
4.3	Noise Figure	1.4 dB Typ. (+ 25 °C ± 5°C) 1.8 dB Max. (+ 85 °C)
4.4	Output Impedance	50 Ω
4.5	Output VSWR	2.0 Max

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

5.1	Frequency Range	1575.42 ± 1.023MHz
5.2	Gain	At 90° 23.5 ± 4dBi
5.3	Output Impedance	50 Ω

6.0 OUTLINE



Unit:mm

Tolerance : +/- 0.2