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SPECIFICATION

SPEC NO. : SP03BE15750-0160

PART NO. : 03V0152310A0100

PRODUCT NAME : GNBA-106A

DESCRIPTION : 3V/18dB/30mm/雙頭剝沾

RoHS Compliant Product

REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	CHECKED	APPROVED
01	2011/8/25	Whole	New Issued	楊昆霖	楊昆霖	吳靖文
02	2012/10/5	2, 3	Modify LNA gain and total gain	楊昆霖	楊昆霖	吳靖文

Prepared By	Checked By	Approved By





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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	- 40°C to + 85°C
2.1.2	Storage Temperature	- 40°C to + 85°C
2.1.3	Relative Humidity	40% to 95%

2.2 ELECTRICAL SPECIFICATIONS

2.2.1	Input Voltage	Min: 2.5V	Typ: 3.0V	Max: 5.5V
2.2.2	Current Consumption	Typ: 10mA	Max: 15mA	@ 3.0V

2.3 CABLE & CONNECTOR

2.3.1	RF Cable	RF Coaxial Cable, ϕ 1.13± 0.1mm, L =30mm±2mm
2.3.2	RF Connector	雙頭剝沾

3.0 ANTENNA

3.1	Antenna Dimensions	25mm*25mm*4mm
3.1	Frequency Range	1575.42 ±1.023 MHz. 1602±8 MHz.
3.2	GAIN	1575.42MHZ:+ 1 dBic Typ. @zenith(ϕ 70mm Ground) 1602MHZ:+1 dBic Typ. @zenith(ϕ 70mm Ground)
3.3	Polaration	RHCP
3.4	Axial Ratio	3dBic(at Elevation 90° -Zenith)

4.0 LNA and FILTER

4.1	Frequency Range	1575.42 ±1.023 MHz 1602±8 MHz.
4.2	Gain(without Cable)	1575.42MHZ:16 dB Min.18 dB Typ.(+ 25 °C ± 5°C) 1602MHZ:16 dB Min.18 dB Typ.(+ 25 °C ± 5°C)
4.3	Noise Figure	2.0 dB Typ. (+ 25 °C ± 5°C) 2.6 dB Max. (+ 85 °C)
4.4	Output Impedance	50Ω
4.5	Output VSWR	2.0 Max
4.6	Out Band Rejection	1587.5 ±140MHz 15dB Min



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

5.1	Frequency Range	1575.42 ±1.023 MHz. 1602±8 MHz.
5.2	Gain	At 90° 19± 3dBic
5.3	Output Impedance	50 Ω
5.4	Output VSWR	2.0 Max

6.0 OUTLINE

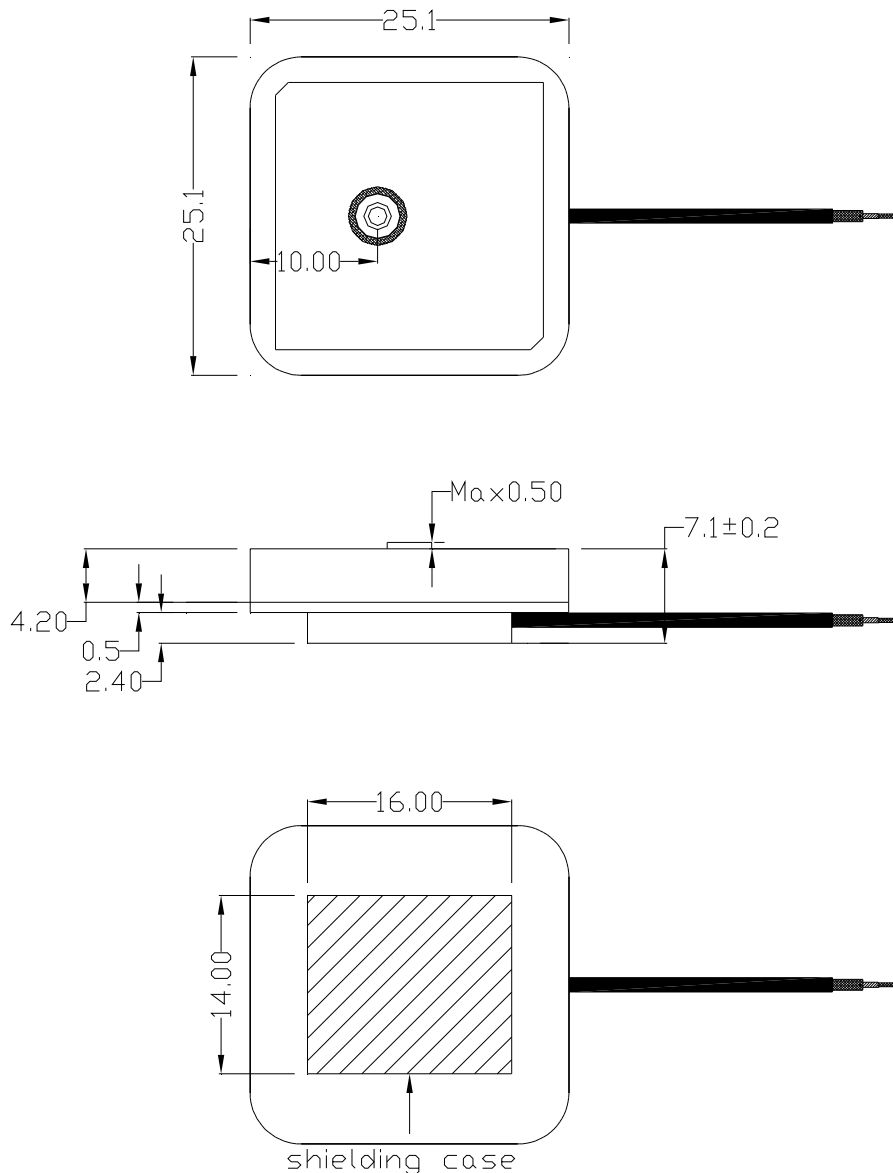


Fig. 2

Unit:mm

