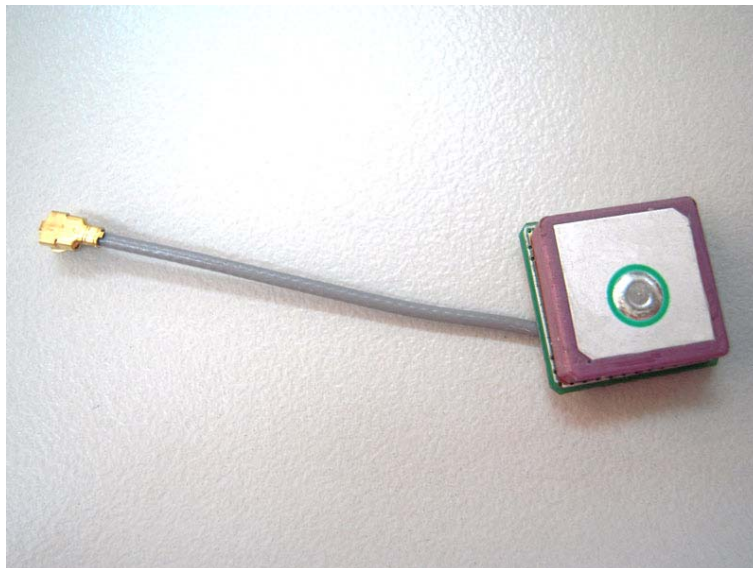


GPS 6911 Patch Antenna

SPECIFICATION

Part No.: 3-6004-337R000

DESCRIPTION: 3V/25dB/40mm



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:2.5 V Typ: 3.3V Max:4.0V |
| 2.2.2 | Current Consumption | At 3.0 V Typ: 10mA Max: 13mA |

2.3 CABLE & CONNECTOR

| | | |
|-------|--------------|---|
| 2.3.1 | RF Cable | RF Coaxial Cable, $\varphi 1.13 \pm 0.1\text{mm}$, L =40mm(離板邊30mm) |
| 2.3.2 | RF Connector | 剝線沾錫 |

3.0 ANTENNA

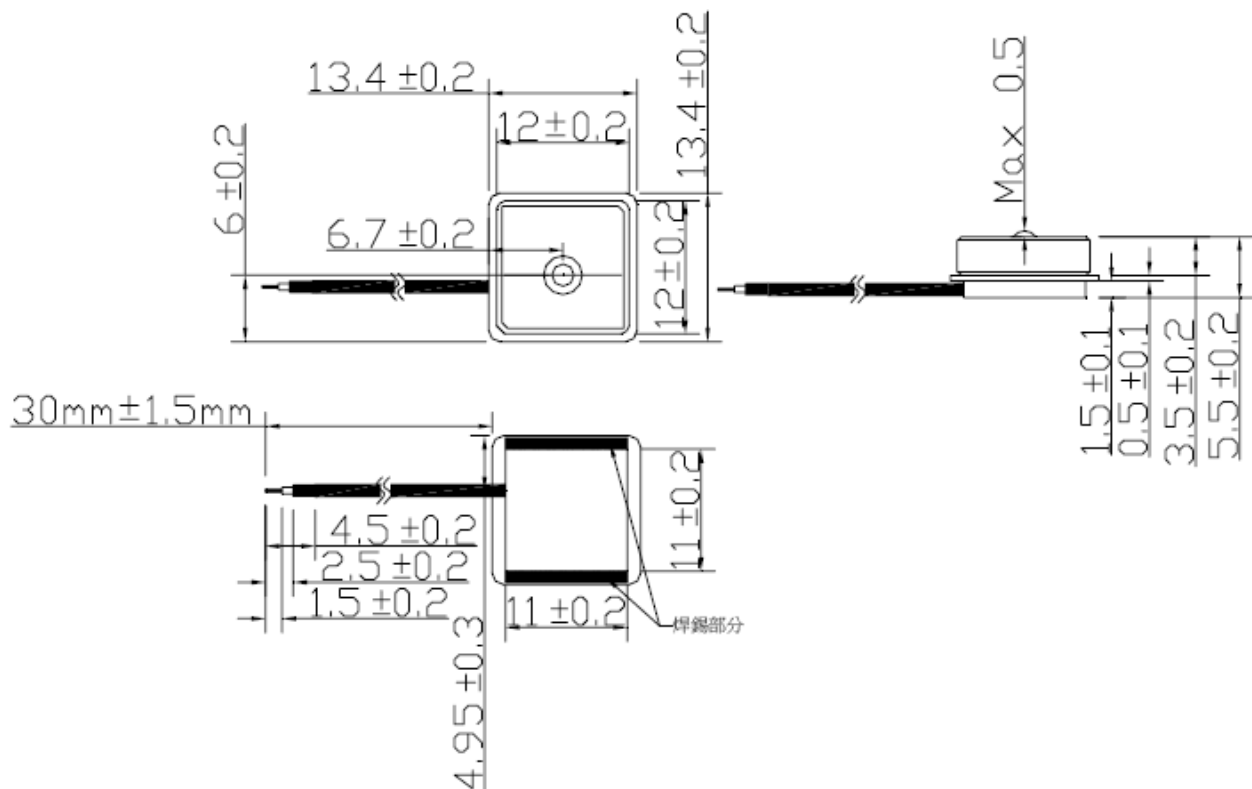
| | | |
|-----|--------------------|---|
| 3.1 | Antenna Dimensions | 12x12x3.5 mm |
| 3.2 | Frequency Range | 1575.42 \pm 1.023 MHz. |
| 3.3 | GAIN | - 1.5 dBi Typ. @zenith(13.4mm*13.4mm Grand) |
| 3.4 | Bandwidth | $\geq 5\text{MHz}$ (Returnloss $\leq 10\text{dB}$) |
| 3.5 | Polaration | RHCP |
| 3.6 | Axialration | Max 3.0dB@zenith |

4.0 LNA

| | | |
|-----|---------------------|---|
| 4.1 | Frequency Range | 1575.42 ± 1.023 MHz |
| 4.2 | Gain | 23.5 dB Min. 25 dB Typ.(+ 25 °C ± 5°C) |
| 4.3 | Noise Figure | 1.5 dB Typ. (+ 25 °C ± 5°C) |
| 4.4 | Output Impedance | 50Ω |
| 4.5 | Output VSWR | 1.5 Max |
| 4.6 | Outband attenuation | ≥ -30dB(Out range of Fc±100MHz) |

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

| | | |
|-----|------------------|---------------------|
| 5.1 | Frequency Range | 1575.42 ± 1.023 MHz |
| 5.2 | Gain | At 90° 23.5 ± 3dBi |
| 5.3 | Output Impedance | 50Ω |
| 5.4 | Output VSWR | 2.0 Max |

6.0 OUTLINE


Unit:mm