

ANT GPS/N 3.3V N/C N/C 1 GPS10N-D3-04-A

1. Application:

This application shall apply for antenna unit which shall be used with an engine for an automobile.(for impedance 50)

2. Appearance:

Antenna Unit (with radome , connector , and cable – refer to an attached drawing)

Dimensions 25*25*8.6mm ; Radome No radome
Weight 23 ± 5 g (typ) ; Connector No Connector

3. Operating Condition:

Temperature -40 to +90
Humidity 10 to 95% RH

4. Storage Condition:

Temperature -40 to +90
Humidity 10 to 95% RH

5. Electrical Specification:

* All value are defined at 25 ± 15 , 65 ± 20 % RH, power handling 1 u watt, air pressure 960 ± 100 HPA unless otherwise noted.

* Patch characteristics are measured with 70x70 mm ground plane in an anechoic chamber.

5-1 Patch

| Characteristics | Specification |
|------------------------------|---|
| Center Frequency | 1575.42 ± 1.023 MHz (when covered with a radome and measured by 70*70mm ground plane) |
| Bandwidth (10dB return loss) | 10 MHz min |
| Gain at Zenith | 5.0 dBic typ |
| Gain at 10° elevation | - 1.0 dBic min |
| Polarization | R.H.C.P |
| Axial Ratio | 1.0 dB typ |

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ± X.XX =
ANGLES = ± HOLE DIA = ±



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SCALE :

UNIT : mm

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DESIGNED BY : 王錦仕 Jms

APPROVED BY : 白世璽 Pss

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DOCUMENT NO.

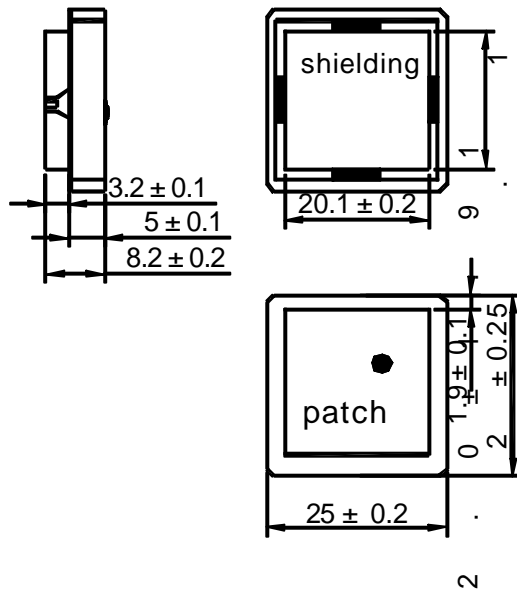
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5-2 Filter / LNA

| Characteristics | | Specification |
|-----------------------------|------|--|
| Center Frequency | | 1575.42 ± 1.023 MHz |
| Gain | | 27 dB typ |
| Noise Figure | | 1.5 dB typ |
| Filter Out band attenuation | | Dielectric 7dB min fo ± 20MHz 20dB min fo ± 50MHz 30dB min fo ± 100MHz (fo=1575.42MHz) |
| Output V.S.W.R | | 2.0 max |
| Voltage | 3.3V | DC =3.3 ± 0.6V |
| Current | 3.3V | 12 ± 2mA max |

6. Antenna Dimensions:



UNIT:mm

UNLESS OTHER SPECIFIED TOLERANCES ON :

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ANGLES = ± HOLE DIA = ±



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