

MDL GPS/D SMA Plug RG174 5m 6 GPS10D-N0-00-A

1. Application:

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

2. Appearance:

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

| | | | | |
|---------------|------------------|---|-----------|----------|
| Dimensions | 37.5*34.5*12.5mm | ; | Radome | #D |
| Weight | 115±15 g (typ) | ; | Connector | SMA Plug |
| Cable | RG-174 5m | ; | Magnet | YES |
| Anti-slip pad | NO | ; | Label | YES |

3. Operating Condition:

Temperature -40 to +90°C

4. Storage Condition:

Temperature -40 to +90 °C

Humidity 65±20 % RH

5. Electrical Specification:

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

* Patch characteristics are measured with 70x70 mm² ground plane in an anechoic chamber.

■ Patch Specification.

| Characteristics | Specification |
|------------------------------|--|
| Center Frequency | 1575.42±1.023 MHz (for 70*70 mm ² ground plane) |
| Bandwidth (10dB return loss) | 10 MHz min |
| Gain at Zenith | 5.0 dBic typ (for 70*70 mm ² ground plane) |
| Gain at 20° elevation | - 1.0 dBic min |
| Polarization | R.H.C.P |
| Axial Ratio at Zenith | 3.0 dB typ |
| Axial Ratio at 10° elevation | 6.0 dB typ |

■ Without Filter/LNA.

■ Overall Specification. (Through Aetenna, without cable loss)

| Characteristics | Specification |
|------------------|--|
| Center Frequency | 1575.42±1.023 MHz (for 70*70 mm ² ground plane) |
| Gain at Zenith | 5dBic typ(for 70*70 mm ² ground plane) |
| Output Impedance | 50ohm |
| Output VSWR | 2.0 typ |

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ± X.XX =

ANGLES = ± HOLE DIA = ±



INPAQ TECHNOLOGY CO., LTD.

SCALE :

UNIT : mm

DRAWN BY : 巫冠賢 巫冠賢

CHECKED BY: 楊奇峰 楊奇峰

DESIGNED BY : 嚴勝龍 嚴勝龍

APPROVED BY : 蔡岳霖 蔡岳霖

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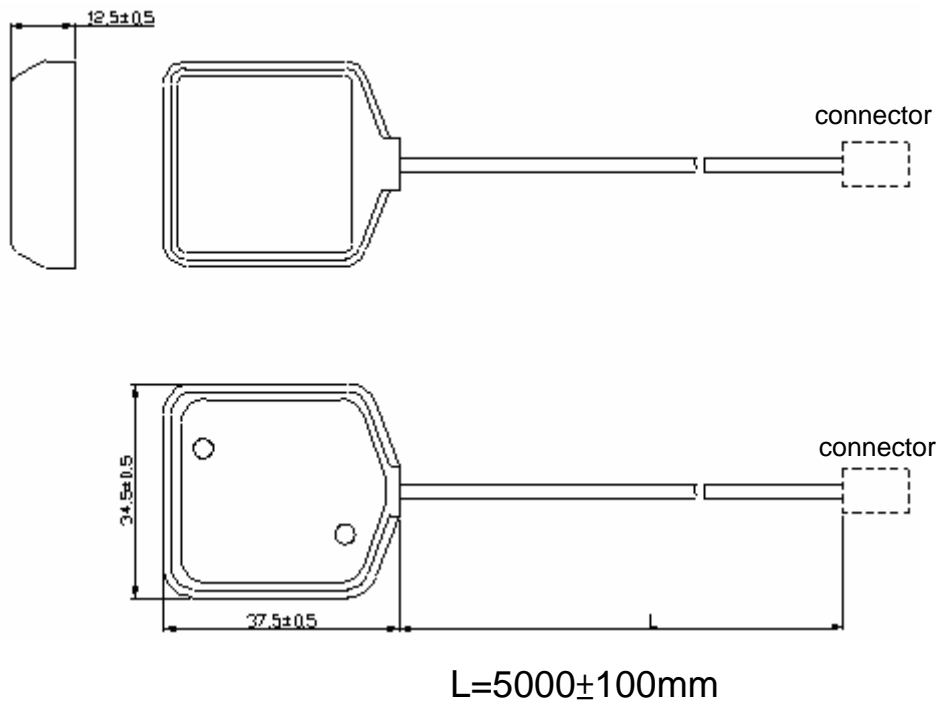
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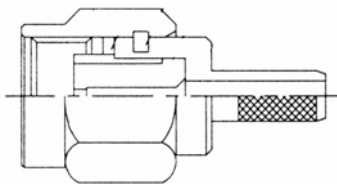
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6. Antenna Dimensions:



connector appearance : SMA Plug



7. Excursus:

This product is for RoHS compliance.

UNLESS OTHER SPECIFIED TOLERANCES ON :

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ANGLES = ± HOLE DIA = ±



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