

MDL GPS/GLONASS 5V0 SMA PLUG RG-174 5m GPSGLONASS03D-S5-01-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	92±10 g	;	Connector	SMA PLUG
Cable	RG174 5000mm	;	Magnet	YES
Anti-slip pad	NO	;	Label	YES (White)
double side adhesive	NO			

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 mm ground plane in an anechoic chamber.

5-1 Patch

Characteristics	Specification
Frequency Domain	1575MHz~1615MHz
Center Frequency	1593±5 MHz
Bandwidth (10dB return loss)	43 MHz typ
Average Gain	2.0 dBic typ.
Polarization	R.H.C.P.

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

CHECKED BY : 楊奇峰

DESIGNED BY : 嚴勝龍

APPROVED BY : 曾源標

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TITLE : MDL GPS/GLONASS 5V0 SMA PLUG RG-174
5m GPSGLONASS03D-S5-01-A

DOCUMENT NO.

ENS000030290

SPEC REV.
P0

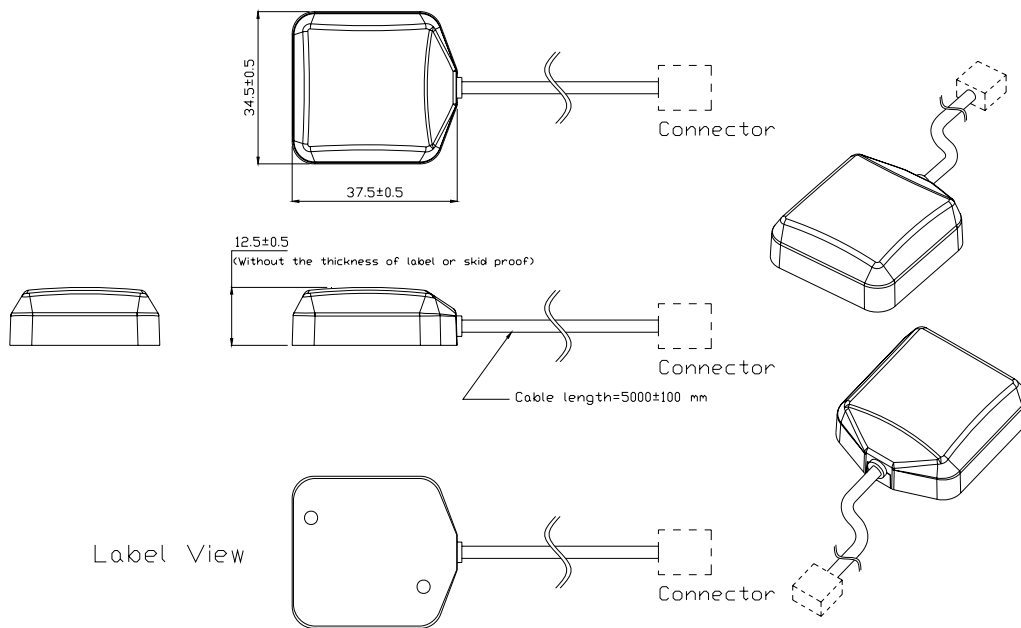
5-2 Filter / LNA

Characteristics	Specification
Frequency Domain	1575MHz~1615MHz
Center Frequency	1593 MHz
Gain	32±3 dB (at 5.0±0.1 V)
Noise Figure	2.0 dB max
Filter Outband attenuation (at 5.0±0.1 V)	34dB typ. fo±50MHz 49dB typ. fo±100MHz (fo=1593MHz)
Output V.S.W.R	2.0 max
Operation Voltage	5.0±0.5 V
Current	13±3 mA (at 5.0±0.1 V)

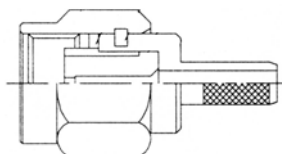
5-3 Overall Specification <Through Antenna, LNA, without cable loss>

Characteristics	Specification
Center Frequency	1593 MHz
Average Gain	34 dBic typ(for ground 70x70mm at 5.0±0.1 V)
Output Impedance	50 ohm
Output VSWR	2.0 typ
Operation Voltage	5.0±0.5 V
Current	13±3 mA (at 5.0±0.1 V)

6. Antenna Dimensions:



Connector appearance : SMA PLUG



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