

MDL GPS/N-3V0 I-PEX MHF (HRS UFL) Φ 1.13 55mm GPSH237N-N3-37-A

1. Application:

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

2. Appearance:

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

Dimensions	18.4*18.4*6.6 mm	;	Radome	#N
Weight	7.55 \pm 1 g (typ)	;	Connector	I-PEX MHF(HRS UFL)
Color	gray	;	Cable	RF Φ 1.13 55mm
PCB	lead free			

3. Operating Condition:

Temperature -40 to +90° C

4. Storage Condition:

Temperature -40 to +90° C

Humidity 65 \pm 20 % RH

5. Electrical Specification:

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

* Patch characteristics are measured with test ground plane in an anechoic chamber.

■ Patch Specification.

Characteristics	Specification
Center Frequency	1575.42 \pm 2 MHz (when covered with a radome on LNA ground plane.)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	2.0 dBic typ
Polarization	R.H.C.P
Axial Ratio	3.0dB typ(for PDA mechanical & ground 18.4x18.4mm)

■ Filter/LNA Specification.

Characteristics	Specification
Gain	21 \pm 3dB (DC=3.0V)
Noise Figure	1.5 dB typ (DC=3.0V)
Output V.S.W.R	2.0 max (DC=3.0V)
Current (DC= 3.0 \pm 0.1V)	4.5 \pm 1.5 mA

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = \pm X.X = \pm X.XX =
 ANGLES = \pm HOLE DIA = \pm



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY: 林娟 林娟

CHECKED BY: 李赞杨 李赞杨

DESIGNED BY: 李赞杨 李赞杨

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 Φ 1.13 55mm GPSH237N-N3-37-A

DOCUMENT NO.

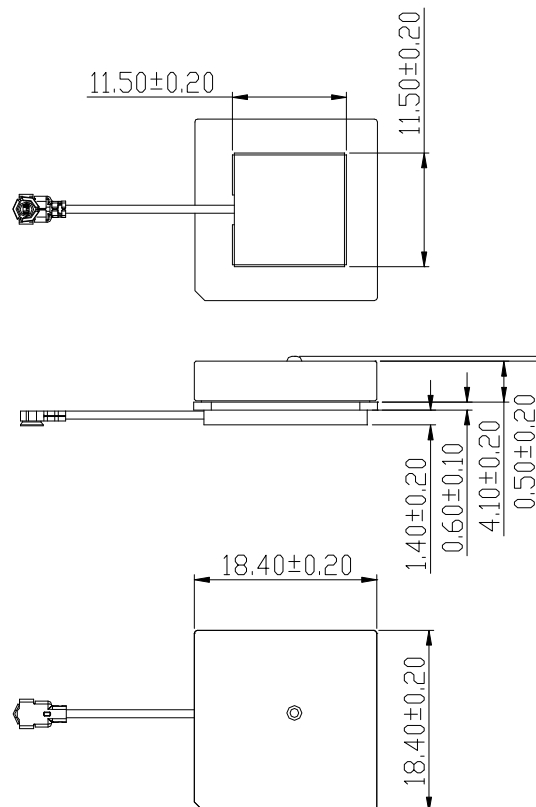
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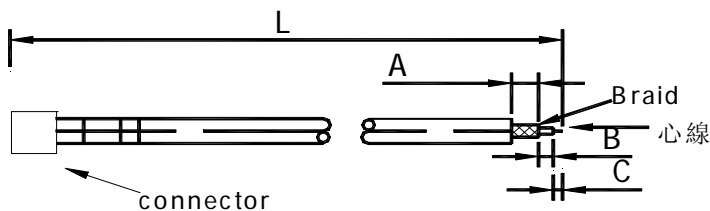
■ Overall Specification.

Characteristics	Specification
Center Frequency	1575.42±2MHz (when covered with a radome on LNA ground plane.)
Gain at Zenith	23dBic typ(for ground 18.4x18.4mm)
Output Impedance	50ohm
Output VSWR	2.0 typ
Operation Voltage	3.0 ±0.1V

6. Antenna Dimensions: (unit: mm)



7. Cable Length:



Connector : I-PEX MHF (HRS UFL) ; **Cable** : RF Cable φ1.13(Gray)

L: 55±2mm A: 1.5±0.5mm B: 1±0.5mm C: 1±0.5mm

UNLESS OTHER SPECIFIED TOLERANCES ON :

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



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