MDL GPS/N-3V3 HRS UFL φ1.13 55mm GPS322N-S3-00-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 32.35*26*4.85mm (typ); Radome #N Weight 8±1 g ; Connector HRS UFL Color Gray ; Cable 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±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 test ground plane in an anechoic chamber.

■ Patch Specification.

Characteristics	Specification
Center Frequency	1575.42±2 MHz (For test housing)
Bandwidth (10dB return loss)	9.0 MHz min
Gain at Zenith	1 dBic typ
Axial Ratio at Zenith	3.0dB typ
Gain at 10° elevation	- 6.1 dBic typ
Polarization	R.H.C.P

Filter/LNA Specification.

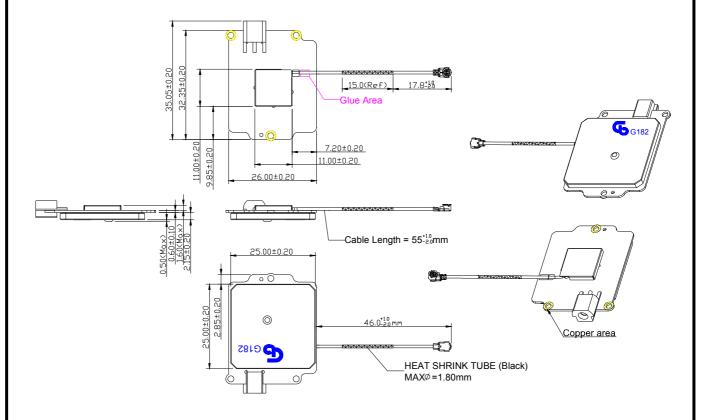
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz
Gain	30±2dB (at 3.3±0.1V)
Noise Figure	1.4 dB typ and 2.0 dB max
Output V.S.W.R	2.0 max
Current	7.5±2 mA (at 3.3±0.1V)

Overall Specification. (Through Antenna, LNA, without cable loss)

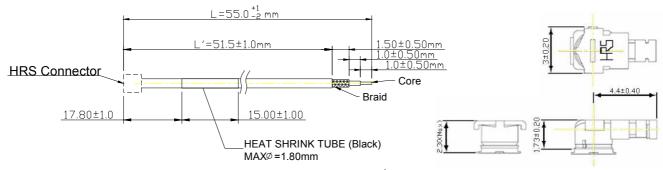
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (for specified ground plane)
Gain at Zenith	31 dBic typ (for specified ground plane)
Output Impedance	50ohm
Output VSWR	2.0 max
Operation Voltage	2.7V~3.6V
Current	7.5±2 mA (DC=3.3±0.1V)

UNLESS OTHER SPECIFIED TOLERANCES ON:				
X=± X.X=±	X.XX=±	$\mathbf{G}_{\mathbf{S}}$	INPAQ TECHNOLOGY CO)., LTD.
$ANGLES = \pm$	$HOLE DIA = \pm$			
SCALE: N/A	UNIT: mm		S AND SPECIFICATIONS ARE THE PROPERT	
DRAWN BY:巫冠賢 ^{巫冠賢}	CHECKED BY:楊奇峰 ^{與子紋} 代		O.,LTD.AND SHALL NOT BE REPRODUCED R THE MANUFACTURE OR SALE OF APP	
DESIGNED BY:嚴勝龍 ^{展勝龍}	APPROVED BY:曾源標系系	DEVICES WITHOUT PERMISSION		
TITLE: MDL GPS/N-3V3 HRS UFL φ 1.13 55mm		DOCUMENT	ENS000022110	SPEC REV.
GPS322N-S3-00-A		NO.		A4

6. Antenna Dimensions: (unit: mm)



7. Cable Length:



Connector: HRS UFL \rightarrow Cable : RF Cable 1.13 \rightarrow L : 55± $\frac{1}{2}$ mm

Heat Shrink Tube: Black (此爲示意圖,其成品內應有線徑標示"HRS")

UNLESS OTHER SPECIFIED TOLERANCES ON:			
X=±	X.X= <u>±</u>	X.XX=±	
ANGLES $= \pm$ HOLE DIA $= \pm$			
SCALE: N/A		UNIT: mm	
DRAWN E	BY: <u>巫</u> 冠賢 ^{巫冠賢}	CHECKED BY:楊奇峰 ^{與子紋} 代	
DESIGNED BY:器勝龍展縣龍		APPROVED BY:曾源檀采绿绿	

TITLE: MDL GPS/N-3V3 HRS UFL $\,\,arphi$ 1.13 55mm

GPS322N-S3-00-A

5

INPAQ TECHNOLOGY CO., LTD.

THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

DOCUMENT NO. ENS000022110

SPEC REV.