MDL GPS/N-3V3 N/C RG-174 10cm 1 GPS10N-D3-14-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 25*25*3.2 mm ; Radome #N Weight 25 ± 5 g (typ) ; Connector N/C Cable RG-174 10cm ; Antislip pad NO Lable NO ; Magnet NO

3. Operating Condition:

Temperature -40 to $+90^{\circ}$ C Humidity 10 to 95% RH

4. Storage Condition:

Temperature -40 to $+90^{\circ}$ C Humidity 10 to 95% RH

5. Electrical Specification:

- * All value are defined at $25\pm15^{\circ}$ C ,65 ±20 % RH, power handling 1 u watt,air pressure 960 \pm 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	10 MHz min	
(10dB return loss)	TO WITZ ITIIII	
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	

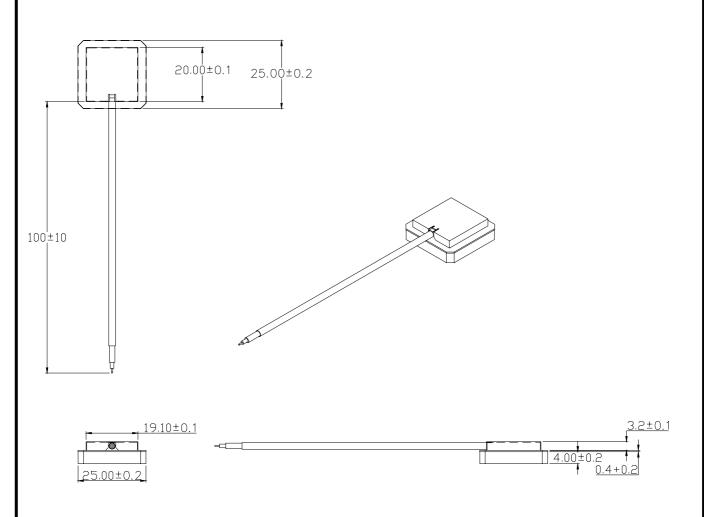
UNLESS OTHER SPECIFIED TOLERANCES ON:				
$X = \pm$ $X.X = \pm$	X.XX =	(In		
$ANGLES = \pm I$	HOLE DIA = ±)	INPAQ TECHNOLOGY CO	., LTD.
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION		
DRAWN By :蕭富美				
DESIGNED BY:蔡岳霖	APPROVED BY:曾泓瑋			
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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	12mA TYP 15mA max		

6. Antenna Dimensions:

L=100±10mm



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DRAWN By :蕭富美	CHECKED BY:曾源標	THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OF DEVICES WITHOUT PERMISSION		
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