MDL GPS/N-3V0 I-PEX MHF ψ1.13 70mm GPS145N-S3-01-A

1. Application:

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

2. Appearance:

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

Dimensions 28*20*6.4 mm ; Radome #N

Weight 8.3 ±1.5 g (typ) ; Connector I-PEX MHF

Color gray ; Cable minicoaxial 1.13 70mm

3. Operating Condition:

Temperature -40 to +90 °C Humidity 10 to 95% RH

4. Storage Condition:

Temperature -40 to +90 °C Humidity 10 to 95% 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.

5-1 Patch

Characteristics	Specification		
Center Frequency	1575.42±2 MHz (when covered with a radome on LNA ground plane.)		
Bandwidth (10dB return loss)	10 MHz Typ		
Gain at Zenith	-1.5 dBic typ(for specified ground)		
Gain at 10° elevation	-2.5 dBic typ		
Polarization	R.H.C.P		
Axial Ratio	3.0dB typ(for specified mechanical & ground)		

5-2 Filter / LNA

Characteristics	Specification		
Center Frequency	1575.42±1.023 MHz		
Gain	16±3dB typ(DC=3.0v)		
Noise Figure	1.5 dB typ(DC=3.0v)		
Output V.S.W.R	2 max(DC=3.0v)		
Voltage	3.0 ±0.3V		
Current(DC= 3.0±0.01V)	5.0 ±2.0mA		

UNLESS OTHER SPECIFIED TOLERANCES ON:				
X=± X.X=±	X.XX=±		INPAQ TECHNOLOGY CO	., LTD.
ANGLES = ±	HOLE DIA = ±			
SCALE:	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF INPAQ		
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DESIGNED BY:廖鴻錦 ^{Gere}	APPROVED BY:蔡岳霖	DEVICES WITHOUT PERMISSION		
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