

品名:<mark>GPS10D-S6-16-A</mark>

History List

修訂者 EDITOR	修訂頁次 PAGE	修訂內容 ITEMS OF CHANGE	申請日期 DATE	生效日期 VALID DATE	ECN 編號 ECN NO.
李昇鴻	ALL	正式發行	2019/07/03	2019/07/03	N/A
李昇鴻	P1	修正 Appearance Connector : MMCX PLUG	2019/12/24	2019/12/24	ECN20195204
	を を 本昇鴻	EDITORPAGE李昇鴻ALL	EDITORPAGEITEMS OF CHANGE李昇鴻ALL正式發行本見渡P1修正 Appearance	EDITORPAGEITEMS OF CHANGEDATE李昇鴻ALL正式發行2019/07/03本見鴻P1修正 Appearance2019/12/24	EDITORPAGEITEMS OF CHANGEDATEVALID DATE李昇鴻ALL正式發行2019/07/032019/07/03本見鴻P1修正 Appearance2019/12/242019/12/24

MDL GPS/D-2V7~5V3 MMCX PLUG RG174 1.5M 6

GPS10D-S6-16-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*12.5 mm ; Radome #D

Weight 44 g (typ); Connector MMCX PLUG

Cable RG-174 1.5m

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 MHz (when covered with a radome and measured by 70*70mm ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	5.0 dBic typ
Gain at 10° elevation	- 1.0 dBic min
Polarization	R.H.C.P
Axial Ratio	3.0 dB typ

UNLESS OTHER SPECI $X = \pm$ $X.X = \pm$ A N G L E S = \pm		G IN	PAQ TECHNOLOGY CO.,	LTD.
SCALE:	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF		
DRAWN BY :紀尚佑	CHECKED BY:紀尚佑	INPAQ TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCE. OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE O APPARATUS OR DEVICES WITHOUT PERMISSION		
DESIGNED BY:李昇鴻	APPROVED BY:蔡凱翔			
TITLE: MDL GPS/D-2V7~5V3 MMCX PLUG RG174 1.5M		DOCUMENT	ENS000123350	SPEC REV.
6 GPS10D-S6-16-A		NO.	L143000123330	A1

5-2 Filter / LNA

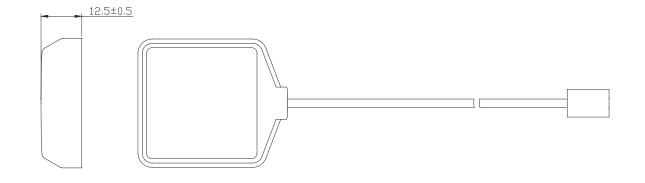
Characteristics		Specification		
Center Frequency		1575.42 MHz		
	2.7V	25dB±3dB		
Gain	3.3V	27dB±3dB		
	5.3V	29dB±3dB		
Noise Figure		1.5 dB typ		
Filter Out band attenuation		7dB TYP fo±20MHz 20dB TYP fo±50MHz 30dB TYP fo±100MHz (fo=1575.42MHz)		
Output V.S.W.R		2.0 max		
Operation Voltage		DC =2.7V~5.3V		
	2.7V	9mA ± 3mA		
Current	3.3V	12mA ± 3mA		
	5.3V	22mA ± 3mA		

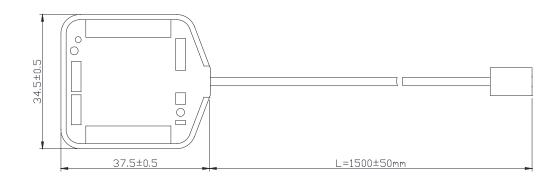
5-3 Overall Specification. <Through Antenna and LNA, without cable loss>

Characteristics		Specification			
Center Frequency		1575.42±1.023 MHz (when covered with a radome on LNA ground plane.)			
	2.7V	(5V5)30 dBic typ(for ground 70x70mm)			
Gain at Zenith	3.3V	(5V5)32 dBic typ(for ground 70x70mm)			
	5.3V	(5V5)34 dBic typ(for ground 70x70mm)			
Output Impedance		50ohm			
Output VSWR		2.0 typ			
Operation Voltage		DC =2.7V~5.3V			
	2.7V	9mA ± 3mA			
Current	3.3V	12mA ± 3mA			
	5.3V	22mA ± 3mA			

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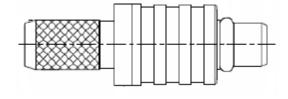
6. Antenna Dimensions:





connector appearance : MMCX PLUG

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