

GPS ANTENNA WITH LNA

Model: GPS-1575-40DBN

1. OVERALL PERFORMANCE (ANTENNA ELEMENT, LNA & CABLE):	
Center Frequency	1575.42±5MHz(When covered with a radome and me assured by LNA ground plane)
Gain	38dB±2dBi typ
Noise Figure	2.7dB max
Polarization	Right Hand Circular Polarization(R.H.C.P)
3db beam width	110±10°
Front to back ratio	10dB min
Axial Ratio	5 dB max
Output VSWR	2.5 max
P1dB(out)	>0dBm
Out Of Band Rejection	f0=1575.42MHz f0=1575.42MHz±30MHz 30dbc min f0=1575.42MHz±50MHz 50dbc min f0=1575.42MHz±100MHz 70dbc min
Output Impedance	50ohm
Voltage	DC: 4V~6V (Through the coaxial cable: The inner conductor "+", The outer conductor "-")
Current	45mA max
Surge resision	Surge resision according to IEC61000-4-5 std. at 4kv, 1.2/50us, Output impedance 2D. of Instrument
Weight	<1kg
Connector	N-Female

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

3. OPERRATING CONDITION:		4. STORAGE CONDITION:	
Temperature	-40℃ to +85℃	Temperature	-40℃ to +100℃
Humidity	5% to 100% RH	Humidity	5% to 95% RH

5. PATCH:	
Dimensions	25mm(L)×25mm(W)×4mm(H) (Antenna Module) ; 176mmX118.5mm (Antenna Dimension)
Center Frequency	1575.42±2MHz
Bandwidth(10dB return loss)	10MHz min
Peak Gain	4.0dBic typ
Front To Back Ratio	10dB min
Axial Ratio	5 dB max
Output V.S.W.R	≤1.5dB
Output Impedance	50ohm
Polarization	R.H.C.P





GPS ANTENNA WITH LNA

Telecommunication Technology & Engineering Accessories

6. LNA/Filter:	
Voltage	DC:4V~6V
Current	45mA max
Center Frequency	1575.42±5MHz
Gain	34±2dB typ
Noise Figure	2.7dB max
Passband Ripple	1575.42M ±1.023MHz : <1dB / 1575.42M ±5MHz : <2dB
P1dB(out)	>0dBm
Filter (Out of band attenuation)	f0=1575.42MHz f0=1575.42MHz±30MHz 30dbc min f0=1575.42MHz±50MHz 50dbc min f0=1575.42MHz±100MHz 70dbc min
Input VSWR	≤2.5:1
Output V.S.W.R	≤2.5:1

7. NOTE:

1. This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
2. We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.
3. The product will get free warranty for three months since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.
4. Electrostatic sensitive device Observe precautions for handling.

