



GPS Antenna Module

Model: D-15P

Compact & Sensitive GPS Antenna module with Excellent Signal Amplification for Mobile Applications



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D-15 is the most compact GPS antenna module currently available on the market, thanks to our cutting-edge technology that makes the device the tiniest possible without sacrificing performance. With comprehensive coverage almost all the way to the horizon, it performs excellently in foliage or urban canyon environment. Featuring diminutive but substantial enclosure plus unparalleled performance, D-15 is compatible with almost every GPS receiver model available on the market and provides a perfect alternative for a vast range of GPS applications in the fields of AVL, vehicle navigation, aviation and military.

Features:

1. Microscopic & rigid structure suits well military and other applications demanding high degree of confidentiality.
2. Ultra-high sensitivity.
3. Module board available for embedded applications.
4. Ideal for PDA, HPC and other computing devices running GPS applications.
5. High temperature stability.

Applications:

AVL / Car Navigation / Vehicle Tracking / Weather Balloon / Security Surveillance
/ External Antenna for Handheld GPS / PDA / PC

Specification:

PHYSICAL CONSTRUCTION	
Dimension:	15mm (L) x 15mm (W) x 4mm (H)
Weight:	30 grams (excluding cable & connector)
ANTENNA ELEMENT	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Polarization:	R.H.C.P. (Right Hand Circular Polarization)
Absolute Gain @ Zenith:	+1 dBi typically
Axial Ratio @ 90° Elevation:	3 dB typically
Output VSWR:	< 2.0 dB typically
Output Impedance:	50 ohm
LOW NOISE AMPLIFIER	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Gain:	20 dB +/- 1dB (w/o cable loss)
Band Width:	2 MHz min.
Noise Figure:	<2.0 dB
Supply Voltage:	3~5 V DC
Current Consumption:	10 mA
Output Impedance:	50 ohm
CABLE & CONNECTOR	
RF Cable:	RG174/U (standard), with RG-178/U and RG-316/U as customized options.
Pulling Strength:	6 Kg/5 sec. with molded plastics on connector end for strain relief
Connector Available:	BNC, TNC, FME (to be adapted), GT5, MCX (OSX), SMA, SMB or SMC in straight or right angle type
Optional Adapters:	FME~MCX, FME~BNC, FME~SMA, FME~SMB, FME~TNC
OVERALL PERFORMANCE (Antenna Element, LNA & Cable)	
Center Frequency:	1575.42 MHz
Gain:	20 dB typically
Noise Figure:	2.0 dB typically
Band Width:	2 MHz
Axial Ratio:	3 dB max.
VSWR:	< 2.0 dB
Output Impedance:	50 ohm
ENVIRONMENTAL CONDITIONS	
Operating Temperature:	-30°C~+80°C
Storage Temperature:	-30°C~+80°C
Relative Humidity:	95% non-condensing

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Data Updated: Nov 01, 2007