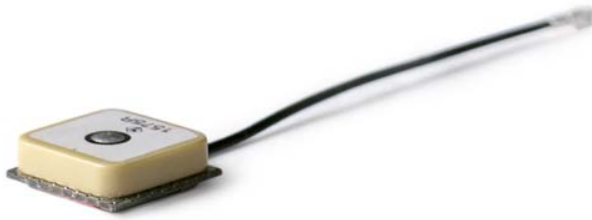




GPS Antenna Module

Model: D-18

**Compact & Sensitive GPS Antenna module with
Extremely Low Attenuation & Power Consumption**



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Introduction:

Featuring excellent anti-signal interference capabilities and amazingly low current consumption, D-18 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. D-18's comprehensive coverage can extend to far-off horizon, performing excellently in foliage or urban canyon environment – even in the presence of electromagnetic interference!

Coming up with diminutive but substantial enclosure plus unparalleled performance, D-18 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:

- Excellent anti-signal interference capabilities and amazingly low current consumption.
- Microscopic & rigid structure suits well military and other applications demanding high degree of confidentiality.
- Ultra-high sensitivity.
- Module board available for embedded applications.
- Ideal for PDA, HPC and other computing devices running GPS applications.

Applications:

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



Specification:

Physical Condition	
Dimension	18mm (L) x 18mm (W) x 8mm (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 at Zenith:	+3 dBi typically
Axial Ratio:	3.0 dB typically
Output VSWR:	1.5 dB typically
LNA (Low noise Amplifier)	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Gain:	17 dB
Band Width:	2 MHz
Noise Figure:	1.3 dB typically
Supply Voltage:	2.5 ~3.3 V DC
Current Consumption:	4.5 ~ 8.0 mA
Output Impedance:	50 ohm
Total Specifications(Through Antenna, LNA, Cable and Connector)	
Center Frequency:	1575.42 MHz
Gain:	15 dB typically
Noise Figure:	1.8 dB
Band Width:	2 MHz
Axial Ratio:	3 dB max.
VSWR:	1.5 dB typically
Output Impedance:	50 ohm
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
Environmental Conditions	
Operating Temperature:	-30°C ~ +80°C
Storage Temperature:	-40°C ~ +90°C
Relative Humidity:	95% non-condensing

(*PS: The specification is subject to change without prior notice)