

D-18 “GPS Antenna Module”

- ❑ **Low attenuation & Power Consumption**
- ❑ **Excellent anti-signal interferences capabilities and amazingly low current consumption**
- ❑ **Microscopic & rigid structure suits the military well as other applications demanding high degree of confidentiality**
- ❑ **Ultra High sensitive**
- ❑ **Module board available for embedded applications**
- ❑ **Ideal for PDA, HPC and other computing devices running GPS applications**

Applications:

- AVL / Fleet Management System
- Car navigation
- Vehicle tracking
- Security Surveillance
- External Antenna for Handheld GPS



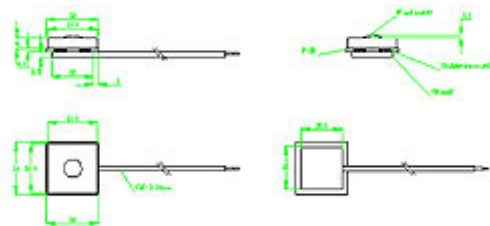
Description:

Featuring excellent anti signal interferences capabilities and amazingly low current consumption

D-18 is the most compact GPS antenna module on the market

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!

D-18 is compatible with almost every GPS receiver model available on the market



Datasheet D-18 Antenna Module

Mechanical Data:

Size in mm (LxWxH)	18x18x8
Weight	30grams (excl. cable & Connector)
RF Cabel	RG174/U Standard
Optional Cabel	RG-178/U & RG-316/U
Connector	BNC,TNC,FME, (to be adapted) GT5,MCX, (OSX), SMA, SMB or SMC straight or right hand angel type
Connector Adapters	FME to MCX,BNC,SMA,SMB, TNC
Pulling Strength	6kg/5 sec. With molded plastics on connector end for strain relief

Environmental Conditions:

Operating Temp.	-30°C ~ + 80°C
Storage Temp.	-40°C ~ + 90°C
Relative Humidity	95% non-condensing

Low Noise Amplifier:

Center Frequency	1575.42 +/- 1.023 MHz
Gain	17 dB
Band Width	2 MHz
Noise Figure	1.3 dB typical

Electrical Specification

Input Voltage	2.5 ~+ 3.3 V DC
Power Consumption	4.5 ~ 8.0 mA

Low Noise Amplifier:

Amplifier Gain	17 dB min
Noise Figure	1.5 dB typical
Output Impedance	50Ω

Total Specification:

(through Antenna element)

Center Frequency	1575.42
Gain	15 dB min
Noise Figure	1.8 dB
Band Width	2 MHz
Axel Ratio	3 dB max.
VSWR	1.5 dB typically
Output Impedance	50Ω

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