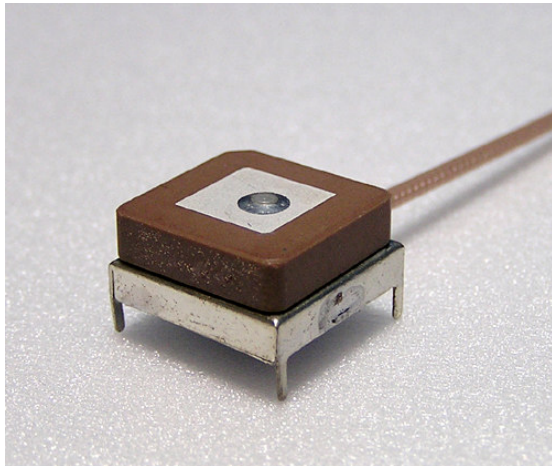




GPS Antenna Module

MODEL: AM-15

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



- Gain: 27 dB
- Ultra-high sensitivity
- Voltage: 3.0V DC
- Current consumption: 10 mA
- 15mm (L) x 15mm (W) x 6.6mm (H)

FEATURES:

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

APPLICATIONS:

External Antenna for Handheld GPS / PDA / PC for GPS Navigation

SPECIFICATIONS:

Specification	
PHYSICAL CONDITION	
Dimension:	15mm (L) x 15mm (W) x 6.6mm (H)
Weight:	30 grams (excluding cable & connector)
Standard Mounting:	Solder



ANTENNA ELEMENT	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Polarization:	R.H.C.P. (Right Hand Circular Polarization)
Absolute Gain at Zenith:	+1 dBi typically
Axial Ratio:	3 dB typically
Output VSWR:	1.5 dB typically
Output Impedance:	50 ohm
LOW NOISE AMPLIFIER	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Gain:	26 dBi min. (w/o cable loss)
Band Width:	2 MHz min.
Noise Figure:	1.5 max.
Supply Voltage:	3.0 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 (w/o cable loss)
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:	25 dB typically
Noise Figure:	1.5 dB typically.
Band Width:	2 MHz
Axial Ratio:	3 dB max.
Current Consumption:	10 mA
VSWR:	1.5 dB typically
Output Impedance:	50 ohm
ENVIRONMENTAL CONDITIONS	
Operating Temperature:	-30°C~+85°C
Storage Temperature:	-40°C~+90°C
Relative Humidity:	95% non-condensing

(This specification is subject to change without prior notice)