

Dielectric GPS Patch Antenna



Description

PA-50C is the most compact GPS antenna module currently available on the market, thanks to 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 – even in the presence of electromagnetic interference! Featuring diminutive but substantial enclosure plus unparalleled performance, PA-50C 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

- Microscopic & rigid structure suits well military and other applications demanding high degree of confidentiality.
- Ultra-high sensitivity.
- Ideal for PDA, HPC and other computing devices running GPS applications.
- High temperature stability

Applications

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

Physical construction

Dimensions: 38mm(L) x 29mm(W) x 10.9mm(D)

Weight: 20grams (w/o cable & connector)

Shielding: LNA circuits are shielded with metal frame to avoid interference

Cable & Connector

RF: 5 meter RG174/U (standard) cable & length (optional)

Pulling strength: 6 Kg @ 5sec. molded plastic 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 to MCX/BNC/SMA/SMB/TNC

Antenna Element

Center Frequency: 1575.42 MHz +/-1.023MHz

Polarization: R.H.C.P. (Right Handed Circular Polarization).

Absolute Gain @ Zenith: +5 dBi typically

Gain @ 10° Elevation: -1 dBi typically

Axial Ratio: 3 dB max.

Output VSWR: 1.5 max.

Output Impedance: 50 ohm

Environmental Conditions

Operating Temperature: -30° C ~ +85° C.

Storage Temperature: -40° C~ +90° C.

Relative Humidity: 95% non-condensing.

