

# Skymaster

## Hard Mount GPS Antenna



### Physical

- Construction: Polycarbonate-radome, detachable cable/connector for easy mount, rubber O-ring between top radome and base for waterproof operation
- Dimensions: Ø 60mm x H 38mm
- Weight: 65g (w/o cable and connector)
- Color: Available in black or white
- Mounting: Bulkhead mount with threaded nut

### Cable and Connector

- RF cable: 5m RG174/U
- Pulling strength: 6Kg for 5sec, moulded plastic on connector end for strain relief
- Connection: Available with SMA, SMB, TNC, BNC, MCX, right angle TNC and right angle BNC connector

### Environmental

- Operating temperature: -30°C to 85°C
- Storage temperature: -40°C to 90°C
- Relative humidity: 95% non-condensing
- Waterproof: 100% waterproof

### Electrical

#### Antenna Element

- Center Frequency: 1575.42MHz ±1.023MHz
- Polarization: Right hand circular polarization
- Absolute gain zenith: 5dB typical
- Absolute gain 10°: -1dB typical
- Axial ratio: 3dB max
- Output VSWR: 1.5 max
- Output impedance: 50ohm

#### Low Noise Amplifier

- Center Frequency: 1575.42MHz
- Power gain: 27dB typical
- Band width: 2MHz min
- Noise figure: 1.5 max
- Out band attenuation: 20 dB min @ Fo ±50MHz
- Supply voltage: 4.5V to 5.5V DC
- Current consumption: Maximum 12mA
- VSWR: 2.0 max
- Output impedance: 50ohm

#### Overall Performance

##### (Antenna Element, LNA and Cable)

- Center frequency: 1575.42MHz
- Gain: 26dB min
- Noise figure: 2.0 max
- Band width: 2MHz min
- Axial ratio: 3dB max
- VSWR: 2.0 max
- Output impedance: 50ohm

### Ordering Information

| Part Number | Description  |
|-------------|--|
| ■ SKYMASTER | ■ SkyMaster GPS antenna, 25dB gain, 1 connector, hardmount, 5m cable |



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