



Mag Mount for 2.4 & 5 GHz bands

## Dome Magnet Mount (Pat.Pnd.)

Multi Band 2.4, 4.9 - 6 GHz & GPS

- Mounts easily to most metal surfaces
- High performance GPS with 26 dB active amplifier (dual 3.3 & 5 V)
- Discreet low profile antenna (under 2 inches)
- Operates 2.4/5 GHz & 4.9 Public Safety Bands

This multiband Mag mount antenna integrates several broadband/data networks with GPS. The antenna operates on 2.4 WiFi, 5 GHz WiFi, and GPS. The antenna will also operate on 2.4 Video Surveillance, and 4.9 GHz for Public Safety broadband. The antenna is excellent for any application needing a nonpermanent stealthy antenna.

The design uses a powerful low profile magnet, and has a 3.75" diameter (95 mm) base with grab removal lip. The antennas are outfitted with 10 feet (3 meters) of cable standard. Low Loss RF-195 cable is used for 2.4 - 6 GHz and RG-174 cable is used for the GPS feed. A variety of connector configurations are available. Please consult factory for special lengths or connectors not shown below.

GPS performance is 26 dB, with 5 dBi antenna gain. The GPS circuit has a low noise figure (2.0 dB max) with excellent filter characteristics. Power for the GPS amplifier (+3.3/5 VDC) and signal is applied through the same cabling directly to the GPS circuit. Power consumption of the on-board GPS amplifier is a low 20 mA max.

The dome portion of the antenna measures 3.75" D x 1.9" H total (95 mm x 48mm). It is made of weatherproof ASA Resin, which is a strong, durable outdoor material with UV stable properties. The bottom of the antenna provides surface scratch resistance using a vinyl contact gasket.

### Antenna Model Configurator

MGD-

example - MGD-W15-3A2C

#### Freq & GPS Voltage

| Code | Description                |
|------|----------------------------|
| W15  | 2.4 GHz/4.9-6 GHz with GPS |

Note: Models are also available for operation on other Data bands, including EV-DO, 1x and All GSM band. Consult additional spec sheets for model/details.

#### 2.4 - 6 GHz Cable & Connector

| Code | Description          |
|------|----------------------|
| 3A   | RF-195 & TNC         |
| 3B   | RF-195 & MiniUHF     |
| 3C   | RF-195 & SMA         |
| 3H   | RF-195 & Fakra       |
| 3J   | RF-195 & Rev Pol SMA |
| 3K   | RF-195 & Rev Pol TNC |
| 3X   | RF-195 & N connector |

#### GPS Cable & Connector

| Code | Description    |
|------|----------------|
| 2C   | RG-174 & SMA   |
| 2D   | RG-174 & SMB   |
| 2E   | RG-174 & MCX   |
| 2F   | RG-174 & MMCX  |
| 2H   | RG-174 & Fakra |
| 2L   | RG-174 & SMC   |

### Specifications

#### Frequency:

|                   |                   |
|-------------------|-------------------|
| GPS               | 1575.42 +/- 2 MHz |
| 2.4 Band          | 2.4 - 2.5 GHz     |
| 4.9 Public Safety | 4.9 - 5 GHz       |
| 5 GHz Broadband   | 5 - 6 GHz         |

**2.4 - 6 GHz Gain:** 2.5 dBi

**GPS Gain:** 26 dB, 5 dBi Antenna

**VSWR:** 2:1 max over range

**Noise Figure:** 2.0 dB max, 1.7 dB typical

**Operating Temp:** -40° to +85° C

**Nominal Impedance:** 50 ohms

**Maximum Power:** 10 Watts (800/900 MHz Band)

**Amplifier Bias:** Dual 3.3 & 5 VDC +/- 10%

**Current:** 20 mA max, 10 mA typical

**Cable:**

GPS RG-174, 10 ft (3 meters)

2.4/4.9-6GHz RF-195, 10 ft (3 meters)

**Case:** 3.75"D x 1.9"H (95 mm x 48 mm)

**Case Material:** Black ASA resin

(Acrylonitrile Styrene Acrylate)

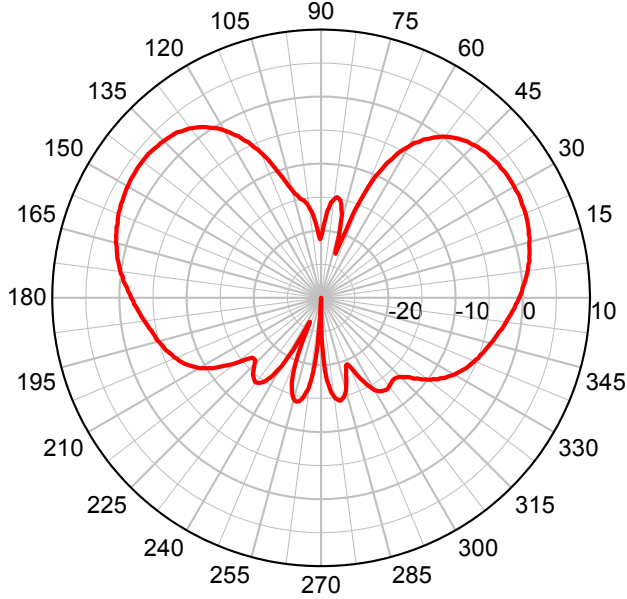
**Connector:** See above, other configurations are available, consult factory.

# MGD-W15-XX2X Antenna

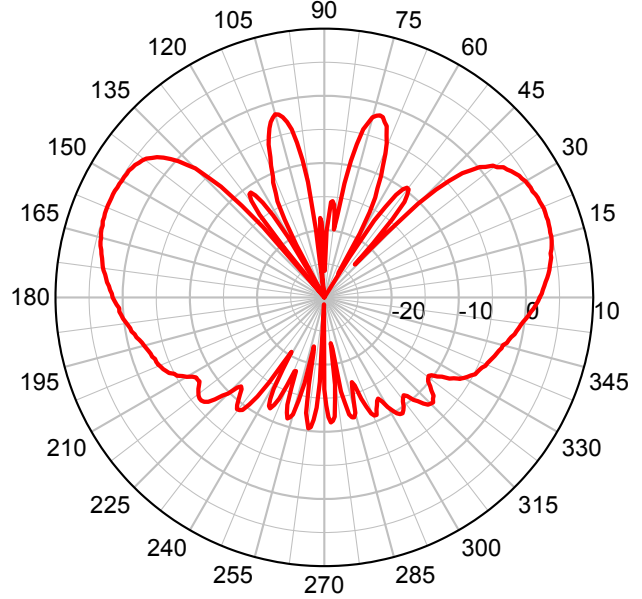
Magnet Style Low Profile Dome Mount Tri Band Antenna

2 dBi, 2.4 – 2.485 & 5.0 – 6.0 GHz w/GPS

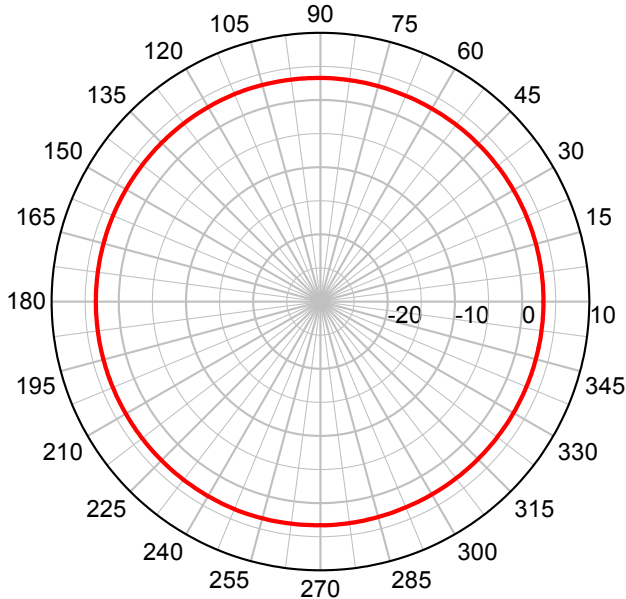
MGD 2400 Series – Elevation Plot



MGD 5500 Series – Elevation Plot



MGD 2400 Series – Azimuth Plot



MGD 5500 Series – Azimuth Plot

