

Megahorn

2, 7 & 13 GHz Wideband Microwave Antennas



Applications

- Electronic News Gathering
- Portable Outside Broadcast

Features

- High gain
- High front-to-back ratio
- Low sidelobes
- Wideband:
 - ◆ 2 GHz Megahorns: 1.7 to 2.0 or 2.0 to 2.7 GHz
 - ◆ 7 GHz Megahorns: 5.9 to 8.5 GHz
 - ◆ 13 GHz Megahorns: 12.7 to 13.2 GHz
 - ◆ 14 GHz Megahorns: 14.5 to 15.35 GHz
 - ◆ Other bands available
- Lightweight
- Available with the MRC "Twist Lock" adapter or "N" connector
- Linear or circular polarization
- Switchable linear twist lock optional
- Ideal for portable and mobile production applications including COFDM modulation

Overview

The Megahorn Series Antennas offer a rugged, lightweight design that's ideal for wideband operation. The 2 GHz Megahorn models can be ordered in either 13 dBi or 16 dBi configurations, to cover 1.7 to 2.0 GHz or 2.0 to 2.7 GHz. The 7 GHz models cover from 5.9 to 8.5 GHz with 19 dBi gain; the 13 GHz Megahorns provide 20 dBi of gain from 12.7 to 13.2 GHz; and the 14 GHz models cover from 14.5 to 15.35 GHz with 20 dBi gain. All models can be ordered with MRC Twist Lock or type "N" connectors.

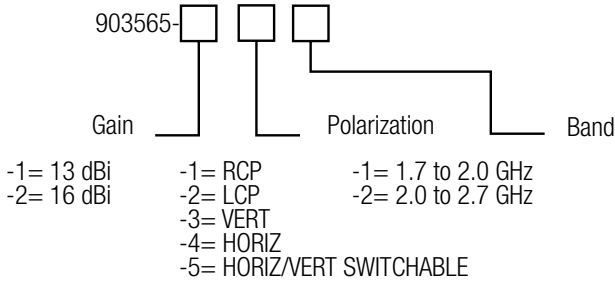
With their excellent performance, the Megahorn antennas are ideal replacements for disc rod or helical rod antennas. All Megahorn antennas feature excellent front-to-back ratio and low sidelobes.

When the Megahorn antennas are used with Millennium Series or ProStar portable systems from MRC they can be ordered with the "Twist Lock" adapter, which allows the antenna to be snapped on and off easily for rapid system setup. With the Twist Lock adapter option, the Megahorn antennas are set internally for a single polarization. Alternatively, the 2 GHz antenna can be ordered with a mounting plate and a standard "N" connector for the RF signal.

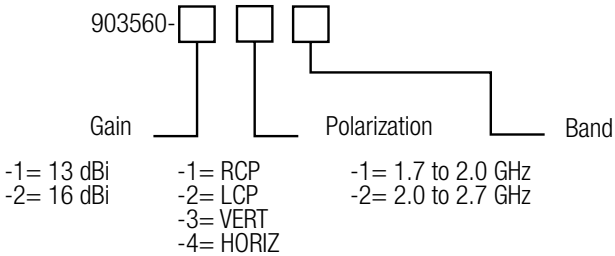
The 7 and 13 GHz Megahorns can be ordered with Twist Lock adapters or with two type "N" connectors. With the "N" connectors, users can switch between either vertical/horizontal, or left/right circular polarization by changing the connector. In this configuration, the 7 and 13 GHz Megahorn antennas are supported by a lightweight mounting bracket on a medium weight tripod.

SPECIFICATIONS

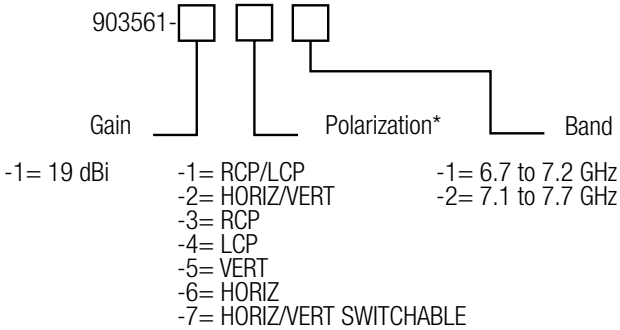
2 GHz MEGAHORN ANTENNAS WITH MRC TWIST LOCK ADAPTER



2 GHz MEGAHORN ANTENNAS WITH TYPE "N" OUTPUT

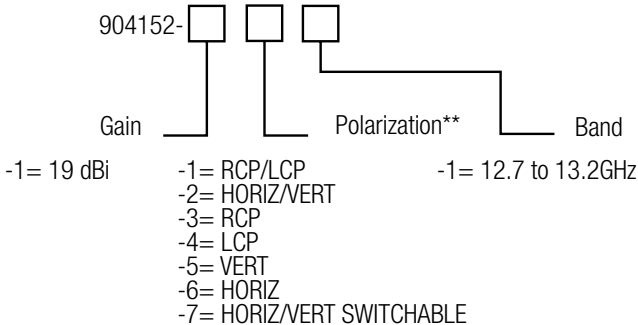


7 GHz MEGAHORN ANTENNAS (SEE NOTE ON CONNECTOR)



*Note: Polarization options -1 and -2 include flat mounting plate and 2 Type "N" outputs, requiring manual polarity switching. Options -3 through -7 come with the MRC Twist Lock adapter.

13 GHz MEGAHORN ANTENNAS (SEE NOTE ON CONNECTOR)



GENERAL

Model Number: MH2-13, MH2-16, MH7-19, MH13-20
 Frequency Range (GHz): 1.7-2.0/2.0-2.7; 1.7-2.7/2.0-2.7, 5.9-8.5; 12.7-3.2
 Gain: See Curve
 VSWR: 1.5:1 maximum
 Beamwidth: 36°, 26°, 18°, 17°
 Front-to-Back Ratio: > -40 dB
 Side Lobe Attenuation: -25 dB minimum
 Cross Polarization Rejection: -20 dB minimum

PHYSICAL

Weight: 3 lbs (1.3 kg) nominal
 Length (w/o twist lock): MH2-13; MH2-16; MH7-19; MH13-20
 8.25"; 1.6"; 11.1"; 12";
 21 cm; 29.5 cm; 28.2 cm; 30.5 cm
 Diameter: 7.9"; 10.5"; 7.1"; 3.75"
 10.4 cm; 26.7 cm; 18.1 cm; 9.5 cm

