

MegaHorn

2 to 15 GHz Wideband Microwave Antennas

The MegaHorn Series Antennas offer a rugged, lightweight design, ideal for wideband operation. The 2 GHz MegaHorn models can be ordered in either 13 dBi or 16 dBi in the following frequencies:

- 1.7 to 2.0 GHz
- 1.7 to 2.5 GHz
- 2.0 to 2.7 GHz
- 4.4 to 5.0 GHz
- 6.4 to 7.125 GHz
- 12.7 to 13.2 GHz
- 14.5 to 15.35 GHz

All models can be ordered with MRC Twist Lock or N-type 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 portable systems from MRC, they can be ordered with the "Twist Lock" adapter, which allows the antenna to be installed and removed 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-Type connector for RF signal.

The 7 and 13 GHz MegaHorn can be ordered with Twist Lock adapters or with two N-Type connectors. With the N-Type 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.



Key Features

- High gain
- High front-to-back ratio
- Low sidelobes
- Lightweight
- Available with the MRC "Twist Lock" adapter or "N" connector
- Linear or circular polarization
- Switchable linear twist lock optional

Typical Applications

- Electronic News Gathering
- Portable Outside Broadcast
- Ideal for portable and mobile production applications including COFDM modulation

GENERAL

VSWR

- 1.5:1 maximum

Front-to-Back Ratio

- > -40 dB

Side Lobe Attenuation

- -25 dB minimum

Cross Polarization Rejection

- -20 dB minimum

Beamwidth

- (See Table)

PHYSICAL

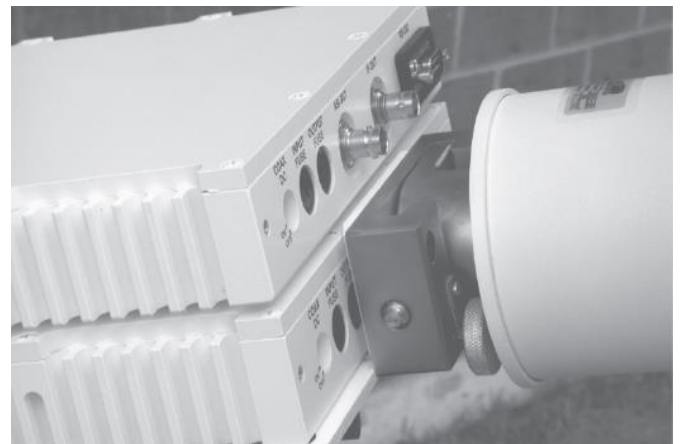
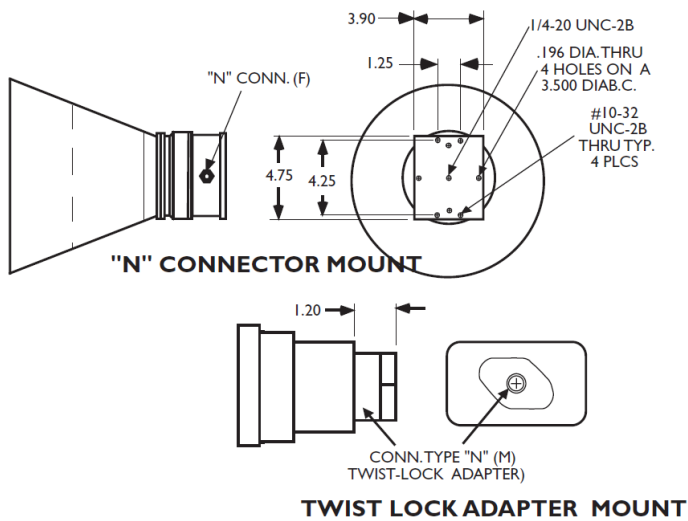
Weight

- 3 lbs. (1.3 kg) nominal

Length/Width

- (See Table)

Mounting Solutions



Specifications

Frequency	Gain	Polarization Options*	Beamwidth	Length	Diameter
1.70 to 2.0 GHz	13 dBi	V, H, LC, RC	36°	8.25" [21 cm]	7.9" [10.4cm]
1.70 to 2.0 GHz	16 dBi	V, H, LC, RC, V/H	26°	11.6" [29.5 cm]	
1.70 to 2.5 GHz	16 dBi	RC	26°	11.6" [29.5 cm]	10.5" [26.7 cm]
2.0 to 2.7 GHz	13 dBi	V, H, LC, RC	36°	8.25" [21 cm]	7.9" [10.4 cm]
2.0 to 2.7 GHz	16 dBi	V, H, LC, RC, V/H	26°	11.6" [29.5 cm]	10.5" [26.7 cm]
4.4 to 5.0 GHz	12 dBi	V, H, LC, RC	36°	8.25" [21 cm]	7.9" [10.4 cm]
4.4 to 5.0 GHz	17 dBi	V, H, LC, RC	18°	11.6" [29.5 cm]	10.5" [26.7 cm]
6.4 to 7.1 GHz	19 dBi	V, H, LC, RC, V/H, LC/RC	18°	11.1" [28.2 cm]	7.1" [18.1 cm]
12.7 to 13.2 GHz	20 dBi	V, H, LC, RC, V/H, LC/RC	17°	12.0" [30.5 cm]	3.75" [9.5 cm]
14.5 to 15.7 GHz	20 dBi	RC, V/H	17°	12.0" [30.5 cm]	3.75" [9.5 cm]

*POLARIZATION LEGEND

V = Vertical

H = Horizontal

LC = Left Circular

RC = Right Circular

V / H = Switchable Vertical/Horizontal

LC/RC = Switchable Left Circular/Right Circular