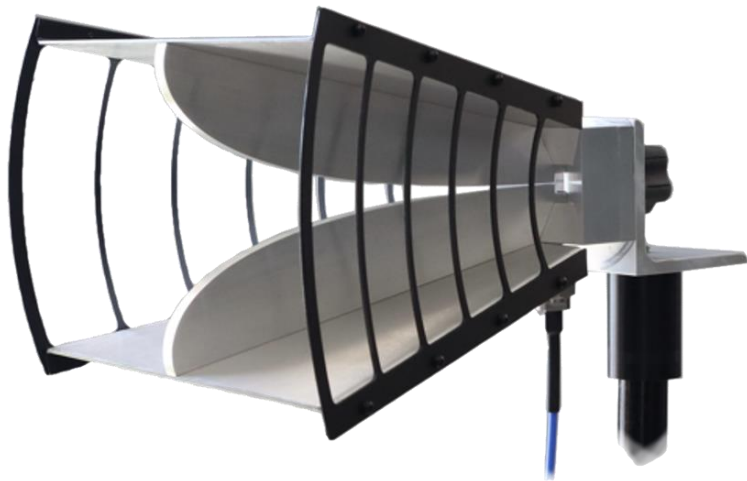


# Advanced Antennas

## AA-DRG-118G-B | Dual Ridged Horn Antenna



### Description

The Electro-Metrics EM-7102 is a high performance Dual Ridged Horn Antenna designed to cover the L, S, C, X, and Ku bands across the extensive 1-18GHz frequency range. The EM-7102 is ideal for precision measurements, EMC testing, antenna characterization, UWB communications, and spectrum monitoring.

The EM-7102 is an updated design featuring the maximum gain of the antenna along its boresight without nulls or lobe-splitting. The EM-7102 also features a consistent beamwidth with a low VSWR for improved measurement quality.



### Advanced Antennas

10401 Roselle Street  
San Diego, CA. 92121

### Specifications

#### Electrical

**Frequency Range:** 1GHz – 18GHz Calibrated  
700MHz – 1GHz Uncalibrated

**Polarization:** Linear, Vertical

**VSWR:** 1.8:1 Average, 3.5:1 Max

**3dB Beamwidth:** 80° - 20° Typical Azimuth  
80° - 20° Typical Elevation

**Impedance:** 50Ω, Nominal

**Gain:** 12-15 dBi Typical > 3GHz  
6dBi @ 1000MHz

**Max\* Power:** 100W

**Connector:** Type 'N' (EM-7102 | 1GHz-18GHz)

#### Mechanical

##### Dimensions:

Length: 23.5 cm (9.25 in.)

Width: 24.1 cm (9.5 in.)

Height: 17.15 cm (6.75 in.)

Weight: 1.15 kg (2.2 lbs.)

##### Mounting Options Available:

¼-20 Mount with 45° detent (included)

##### Color Options:

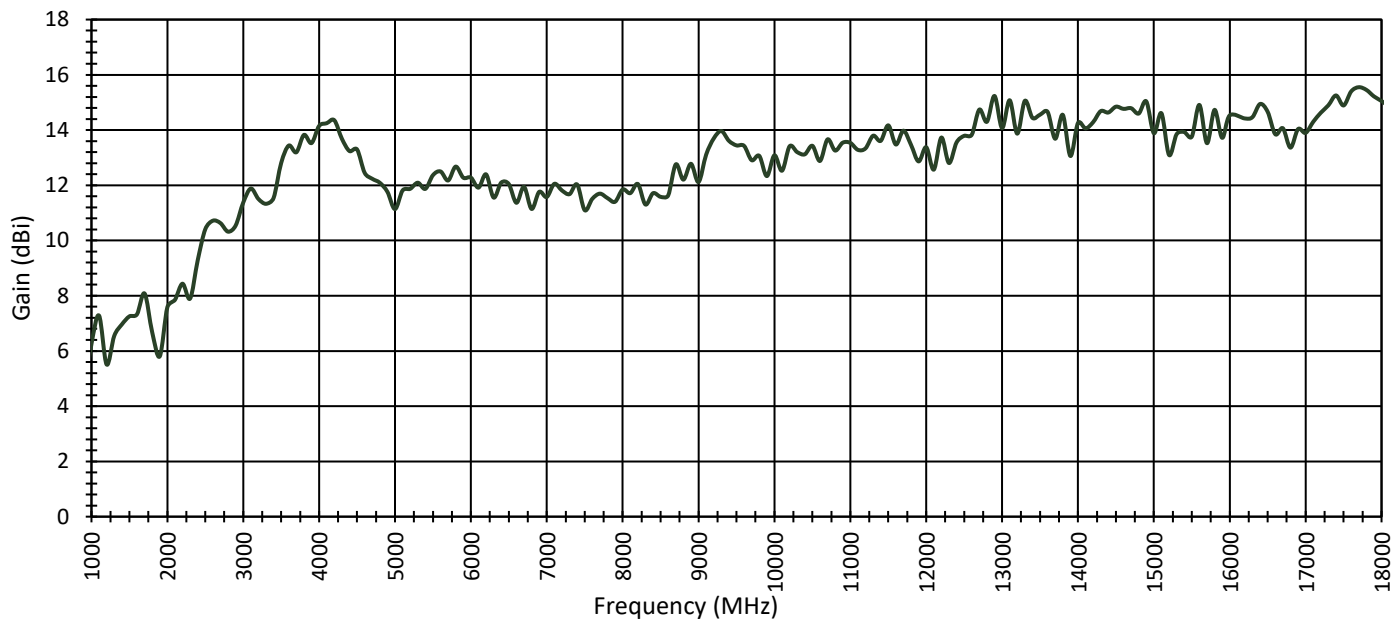
- Black
- Unfinished Aluminum
- Custom Paint Available

Phone: (800) 404-2832

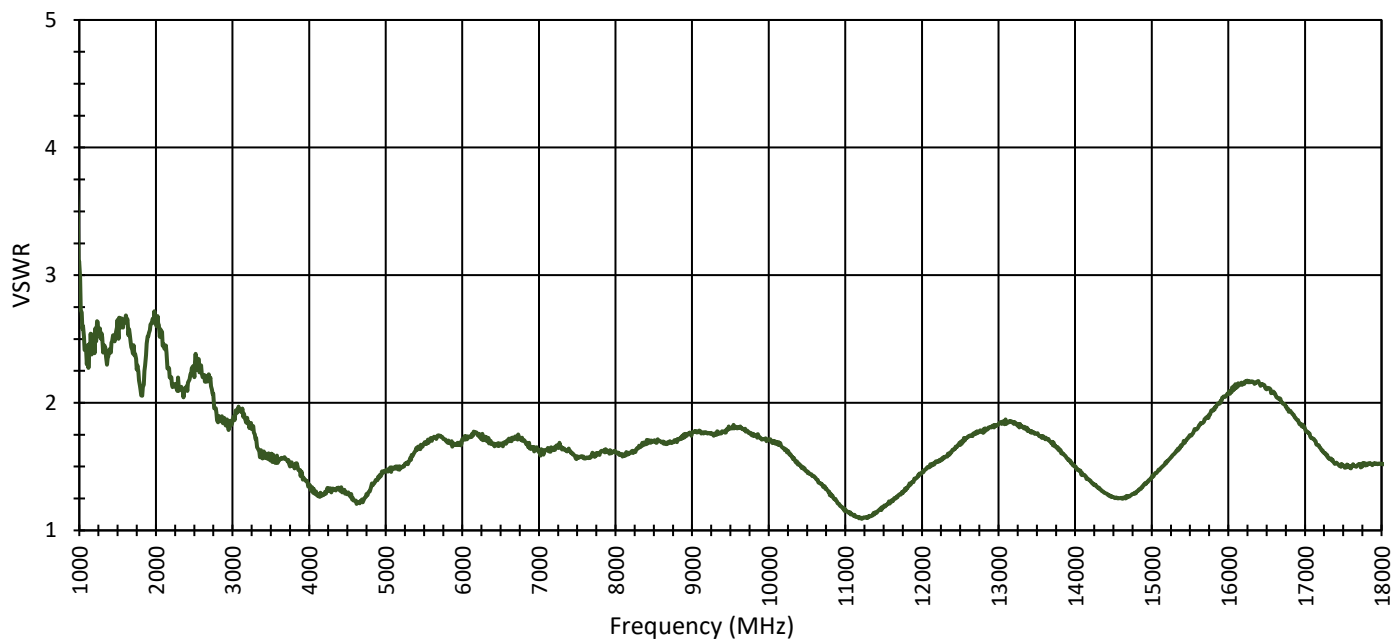
# Advanced Antennas

## AA-DRG-118G-B | Dual Ridged Horn Antenna

AA-DRG-118G-B Typical Max\* Gain (dBi)



AA-DRG-118G-B Typical VSWR



\*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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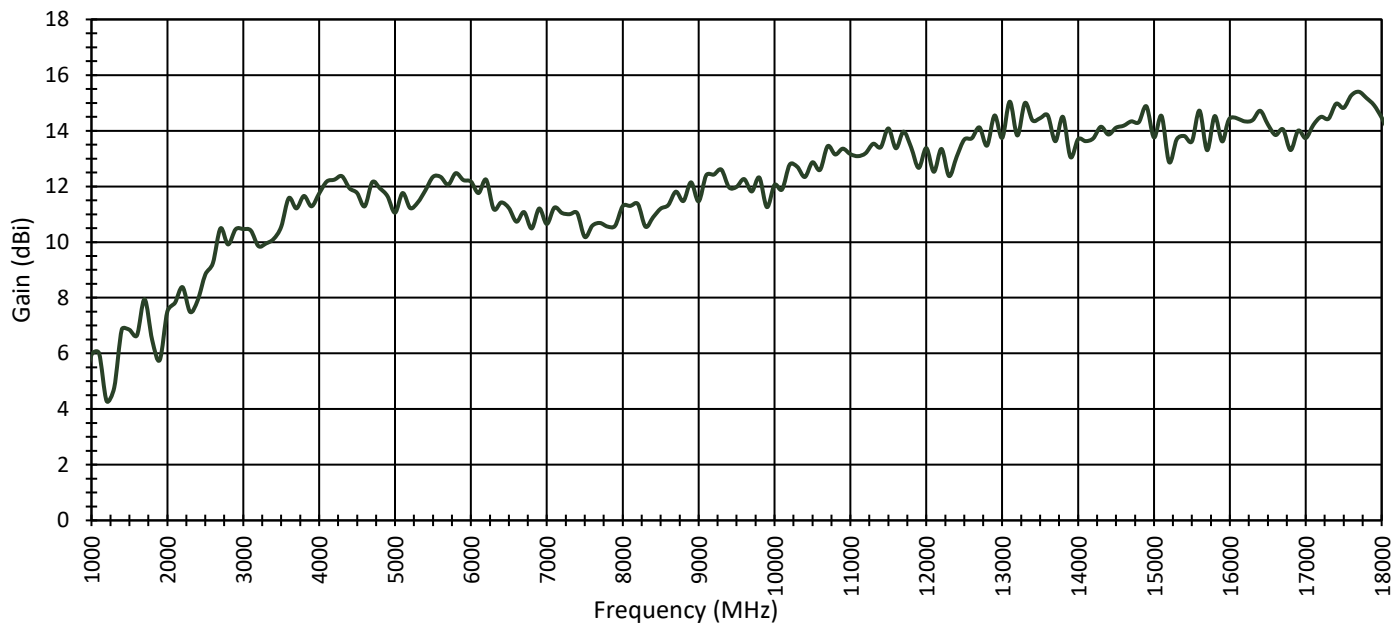
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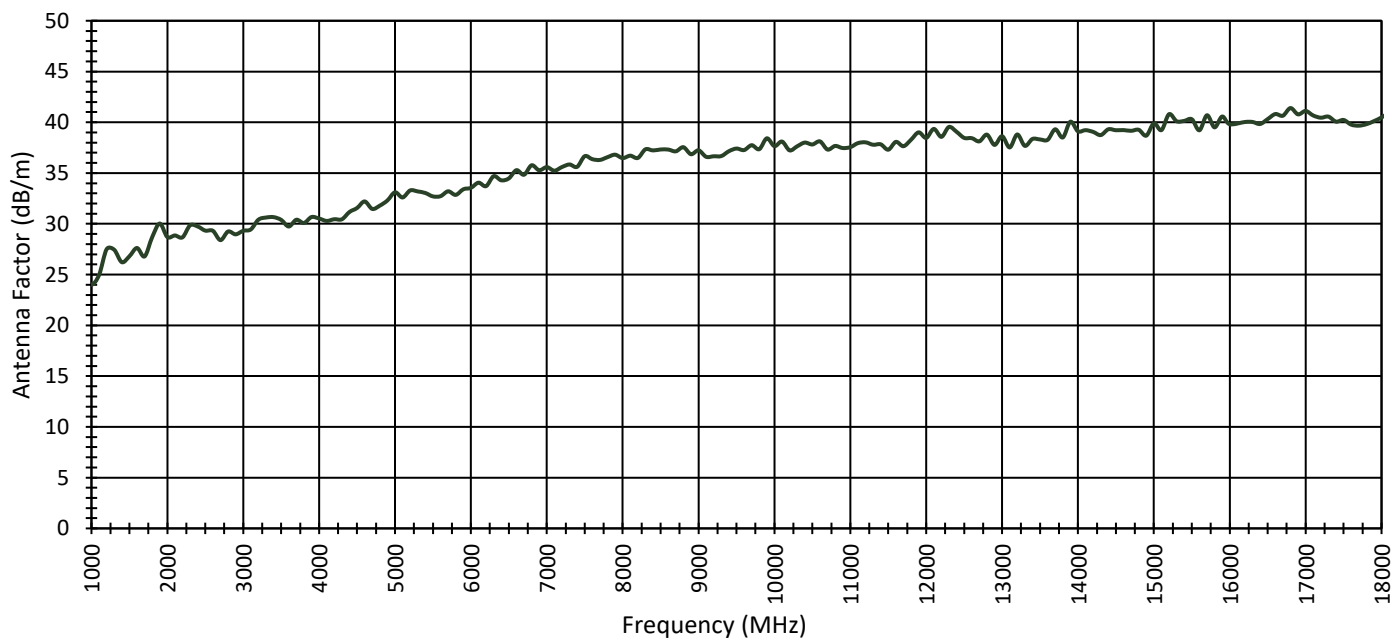
# Advanced Antennas

## AA-DRG-118G-B | Dual Ridged Horn Antenna

AA-DRG-118G-B Typical Boresight Gain (dBi)



AA-DRG-118G-B Typical Boresight Antenna Factor (dB/m)



Boresight measurements are taken along antenna center axis of symmetry. Data shown is typical, not guaranteed.

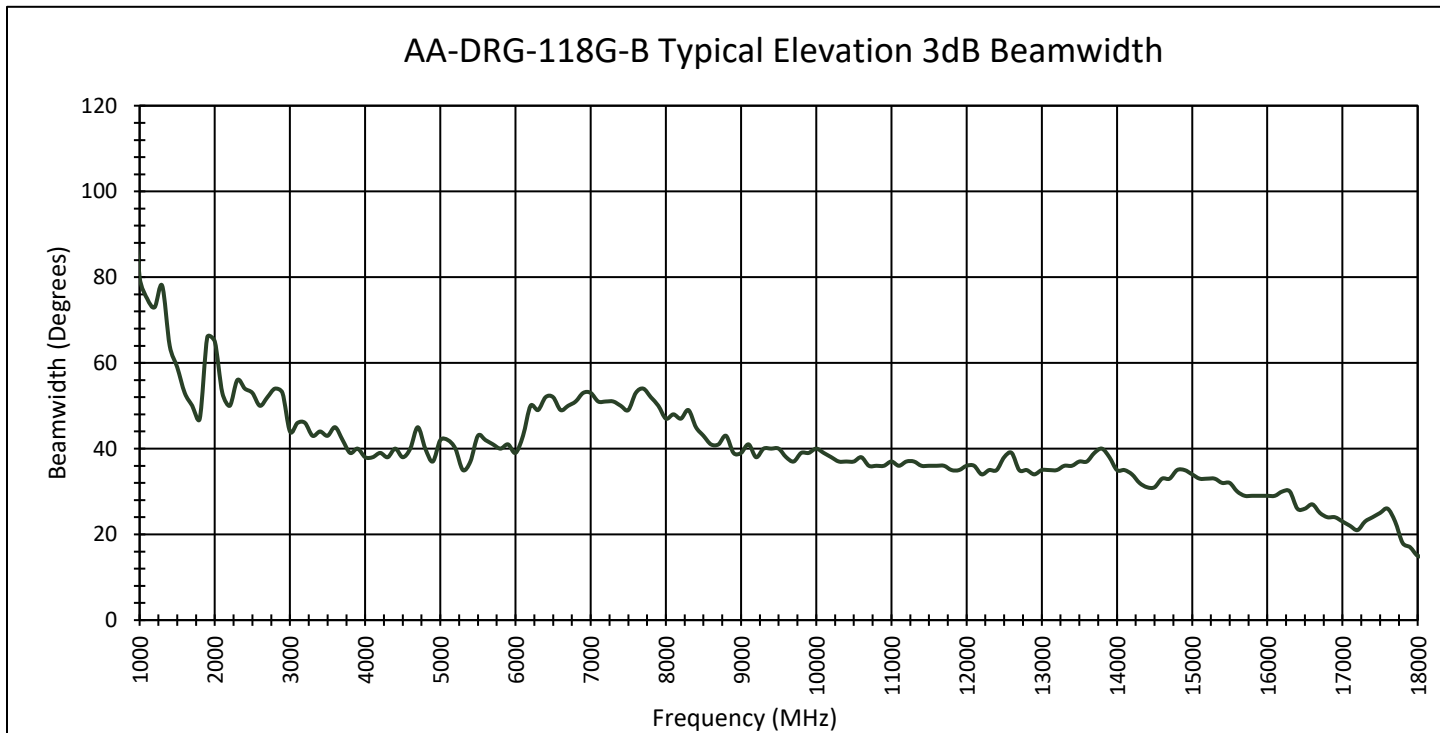
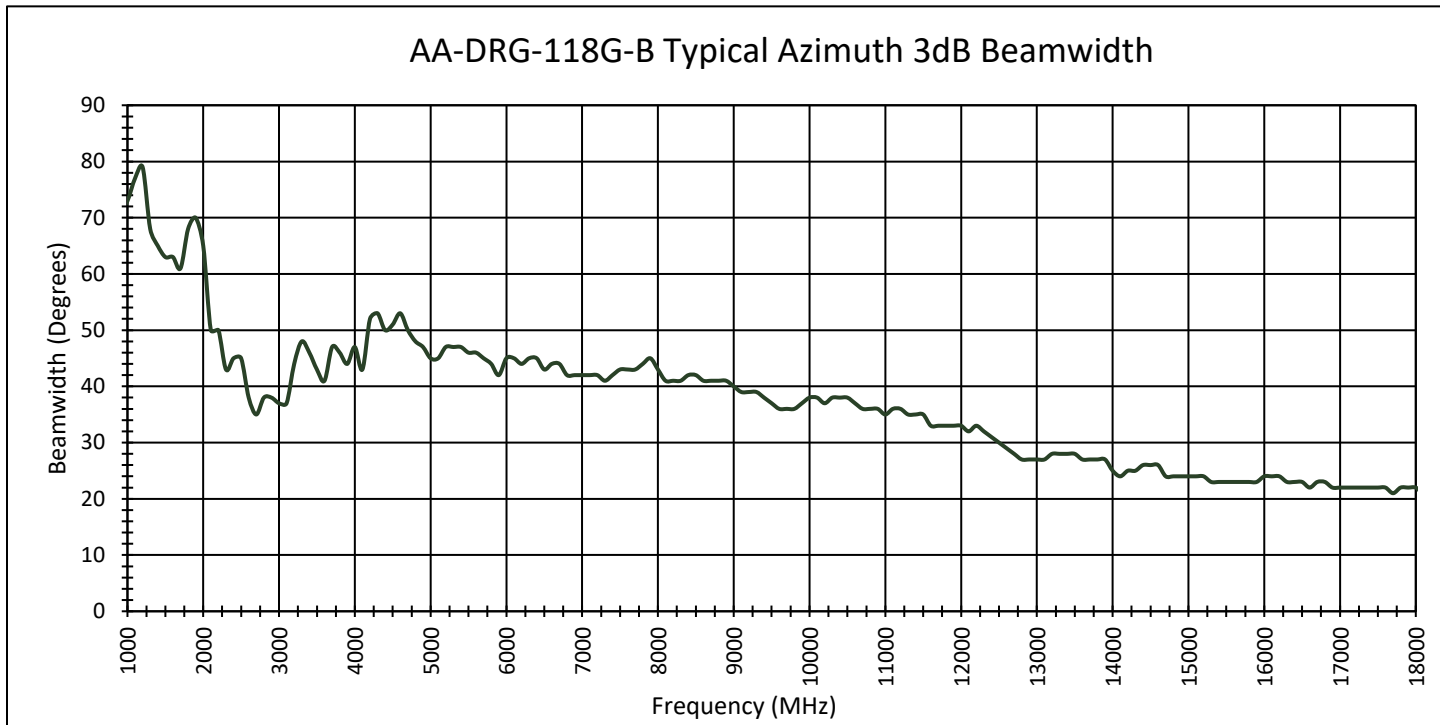
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