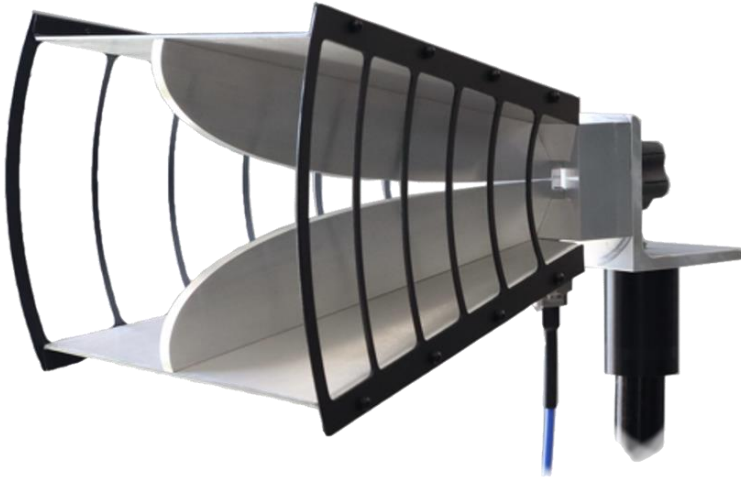


EM-7102 | Dual Ridged Horn Antenna



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.



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)

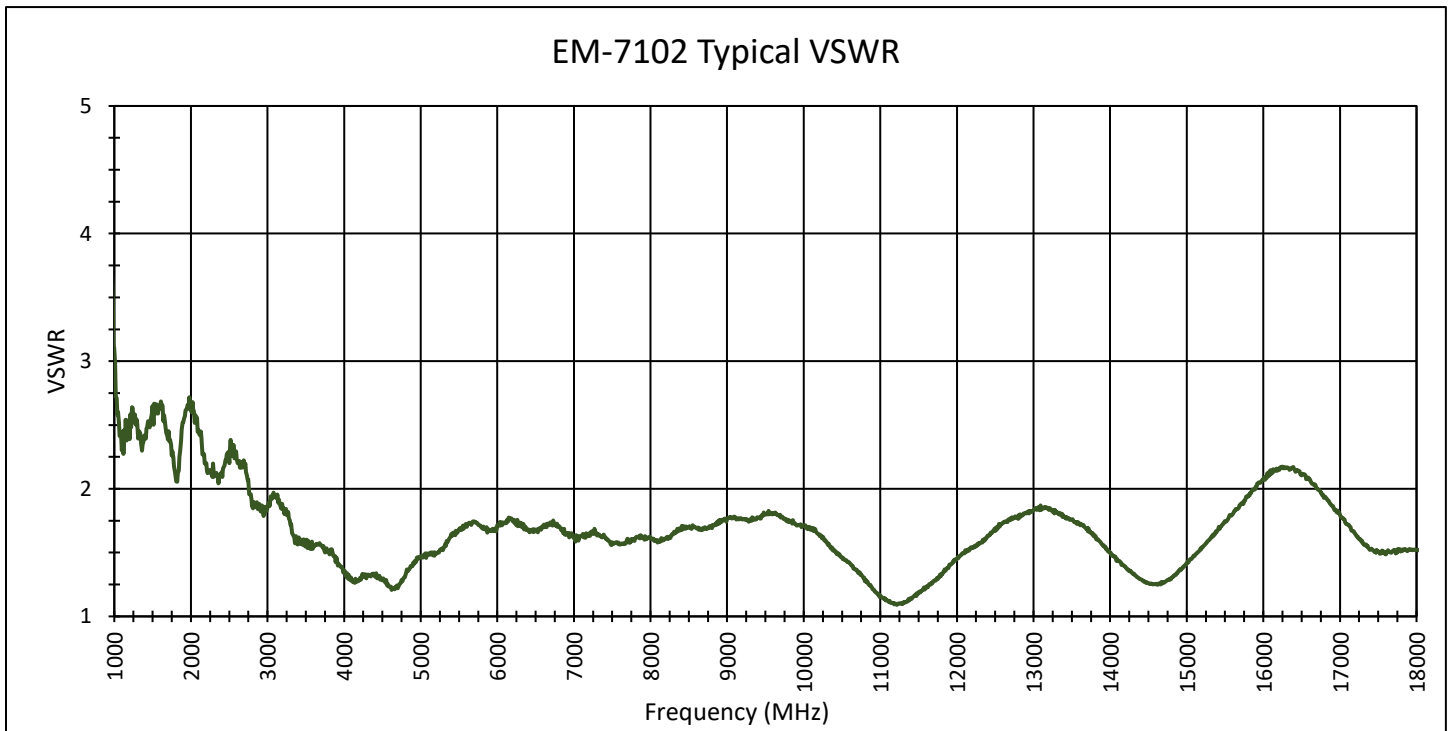
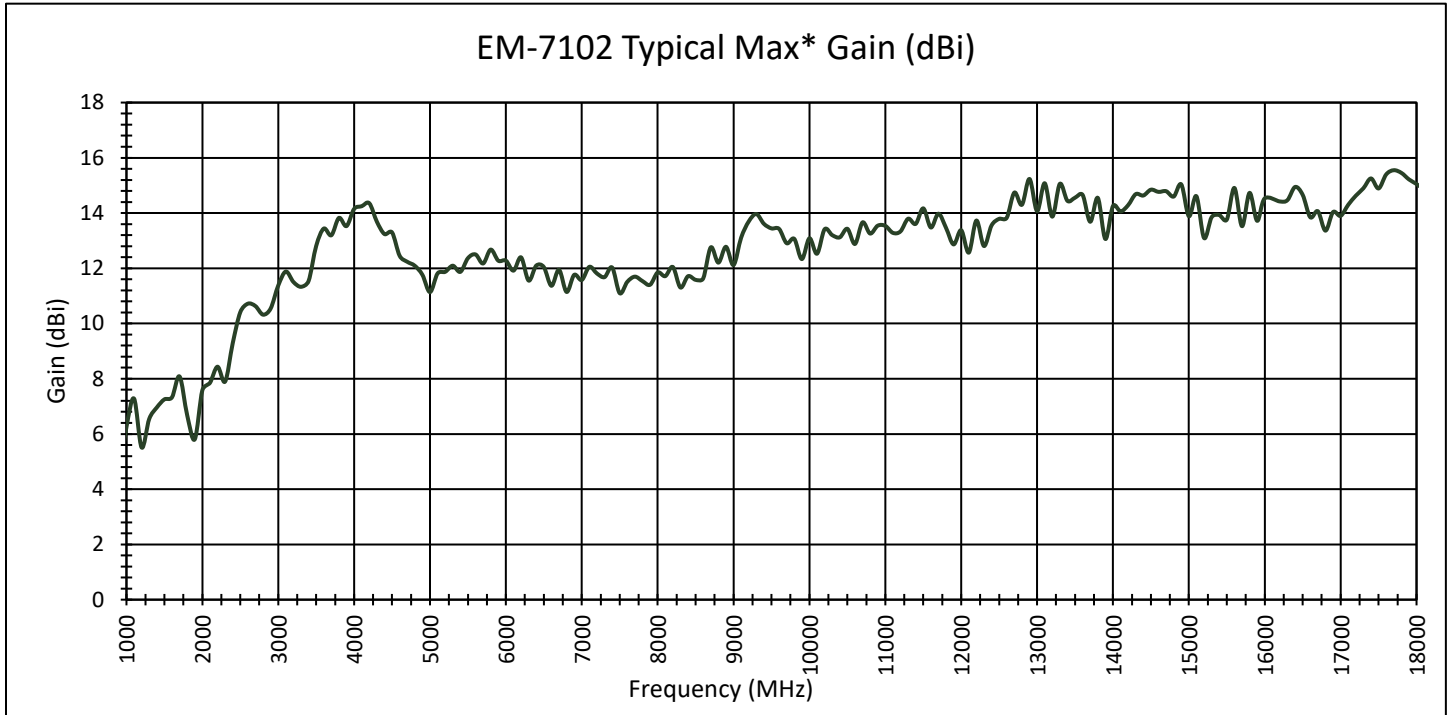
Color Options:

- Black
- Unfinished Aluminum
- Custom Paint Available

Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.



EM-7102 | Dual Ridged Horn Antenna

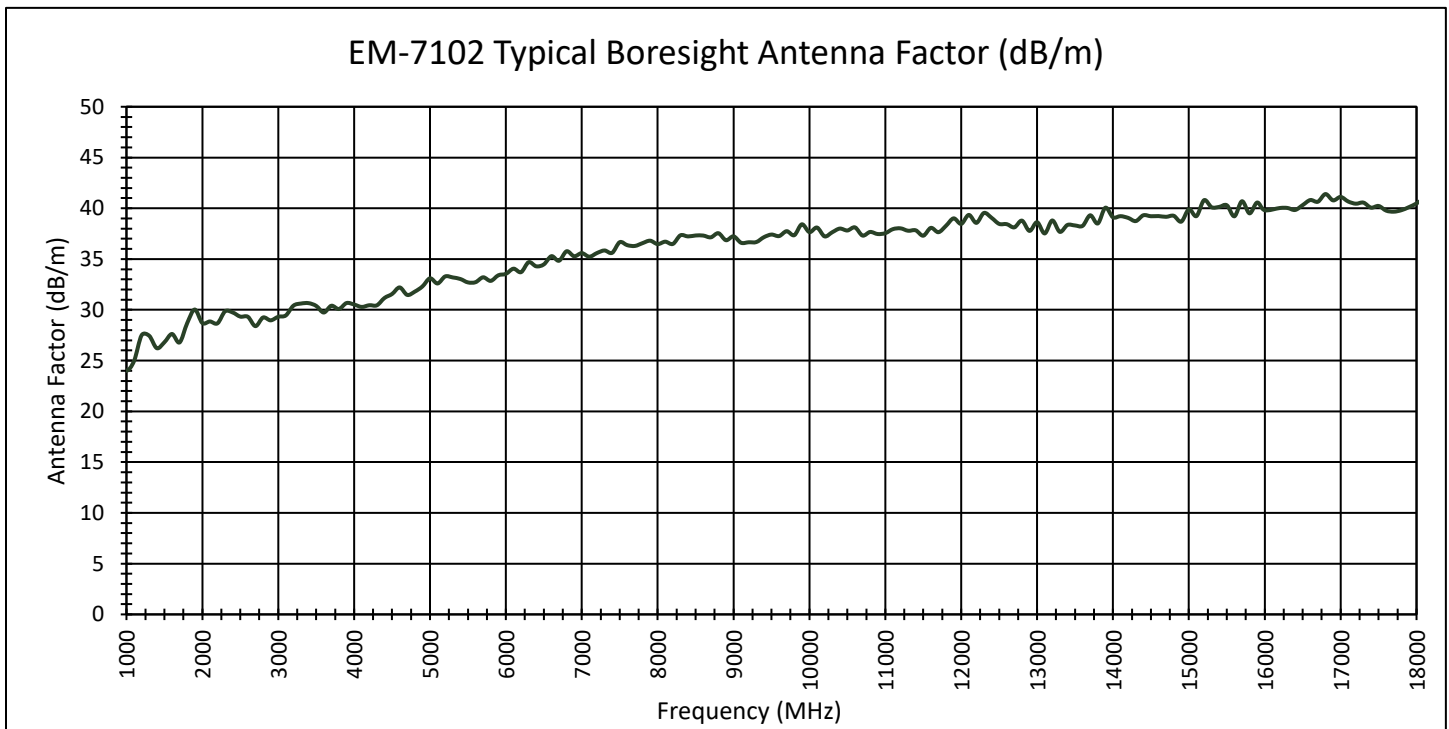
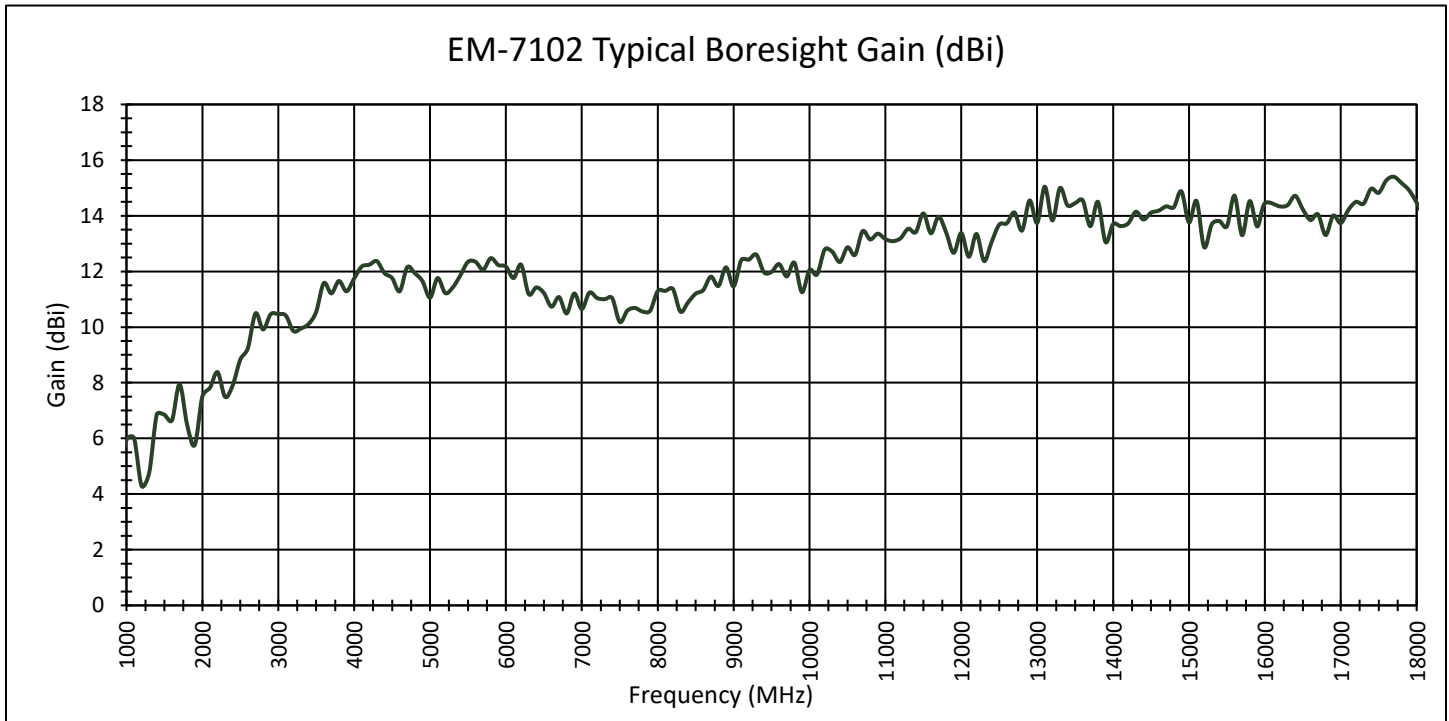


*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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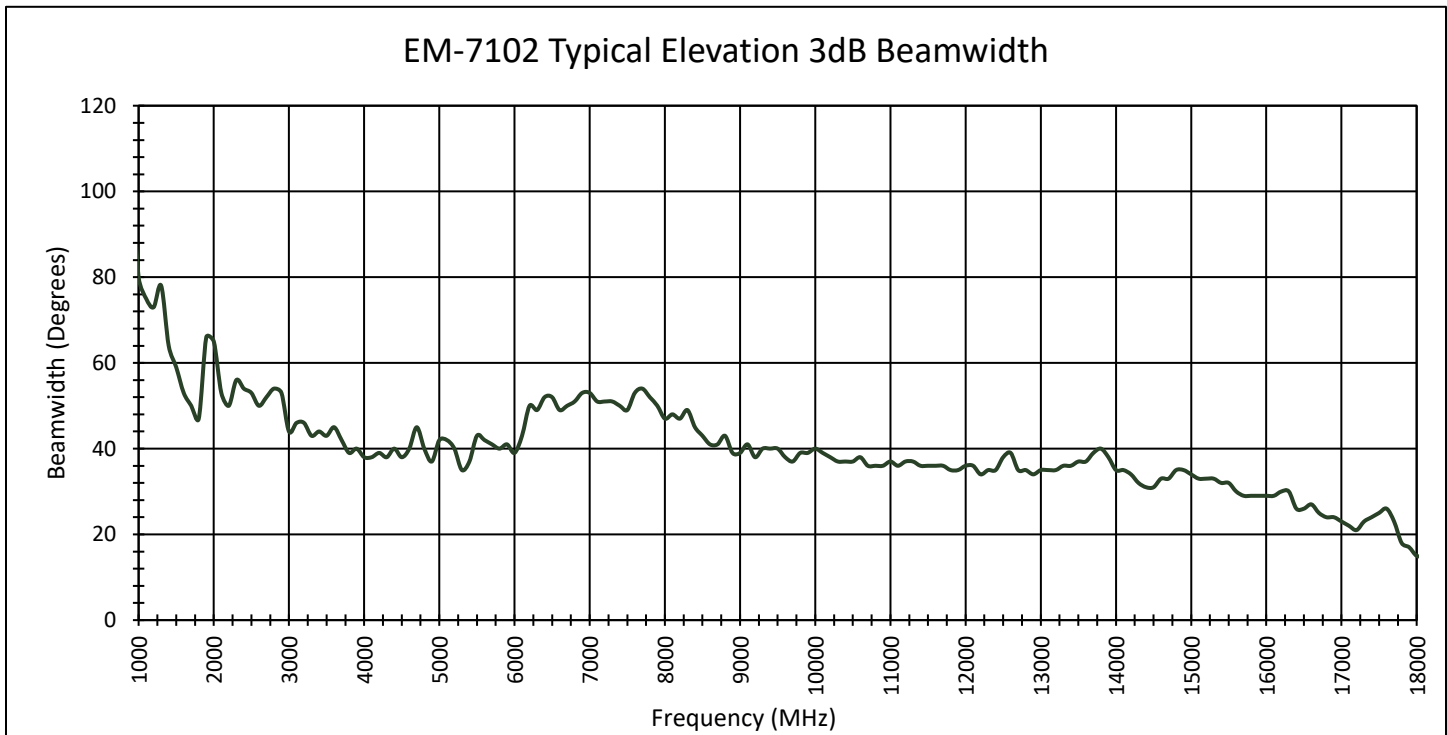
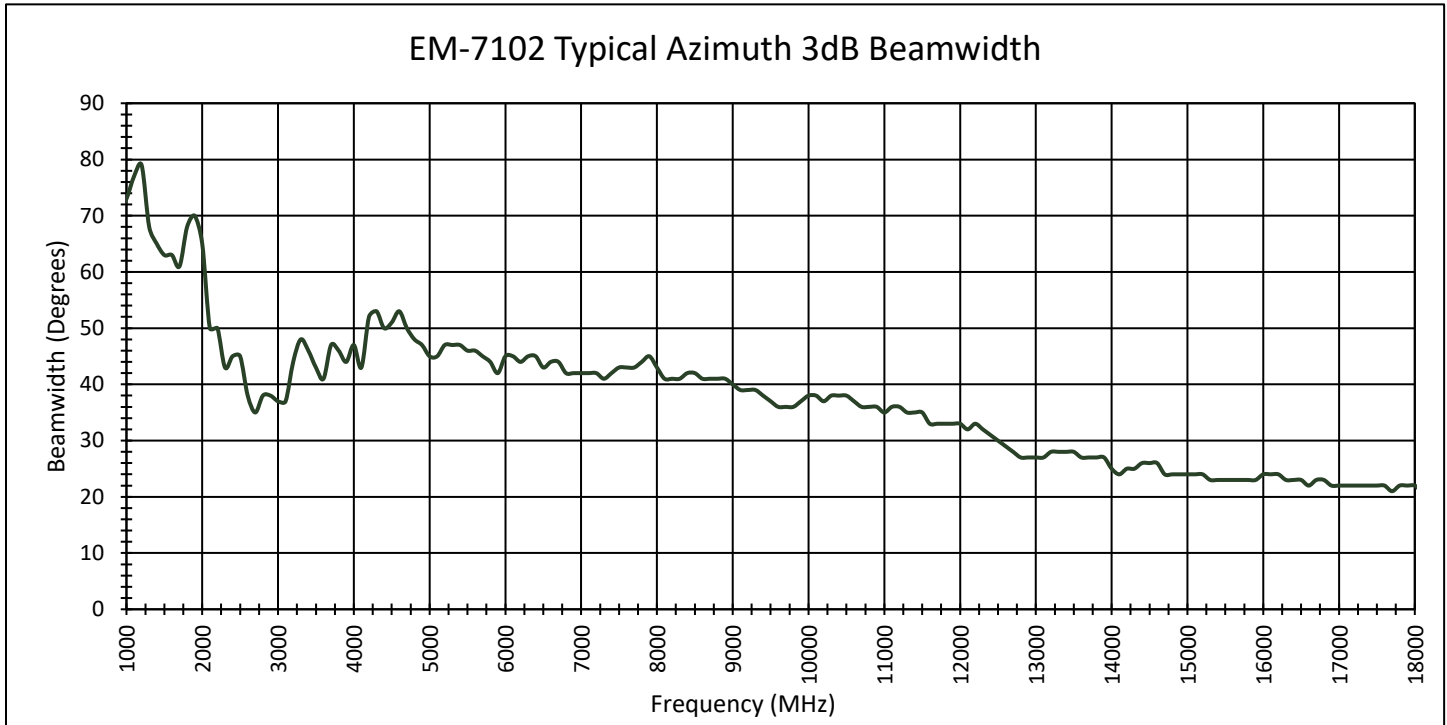


Boresight measurements are taken along antenna center axis of symmetry. Data shown is typical, not guaranteed.

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