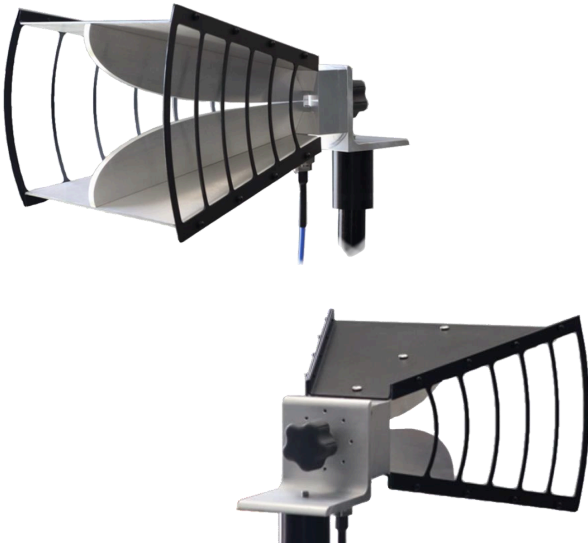


## EM-7102 | Dual Ridged Horn Antenna



### Description

The 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

<b>Frequency Range:</b>	1 GHz – 18 GHz Calibrated 700 MHz – 1 GHz Uncalibrated
<b>Polarization:</b>	Linear, Vertical
<b>VSWR:</b>	1.8:1 Average, 3.5:1 Max
<b>Impedance:</b>	50Ω, Nominal
<b>Gain:</b>	12-15 dBi Typical > 3 GHz 6 dBi @ 1000 MHz
<b>3dB Beamwidth:</b>	80° - 20° Typical Azimuth 80° - 20° Typical Elevation
<b>Max* Power:</b>	100W
<b>Maximum Continuous Power:</b>	50 W
<b>Connector:</b>	Type 'N'

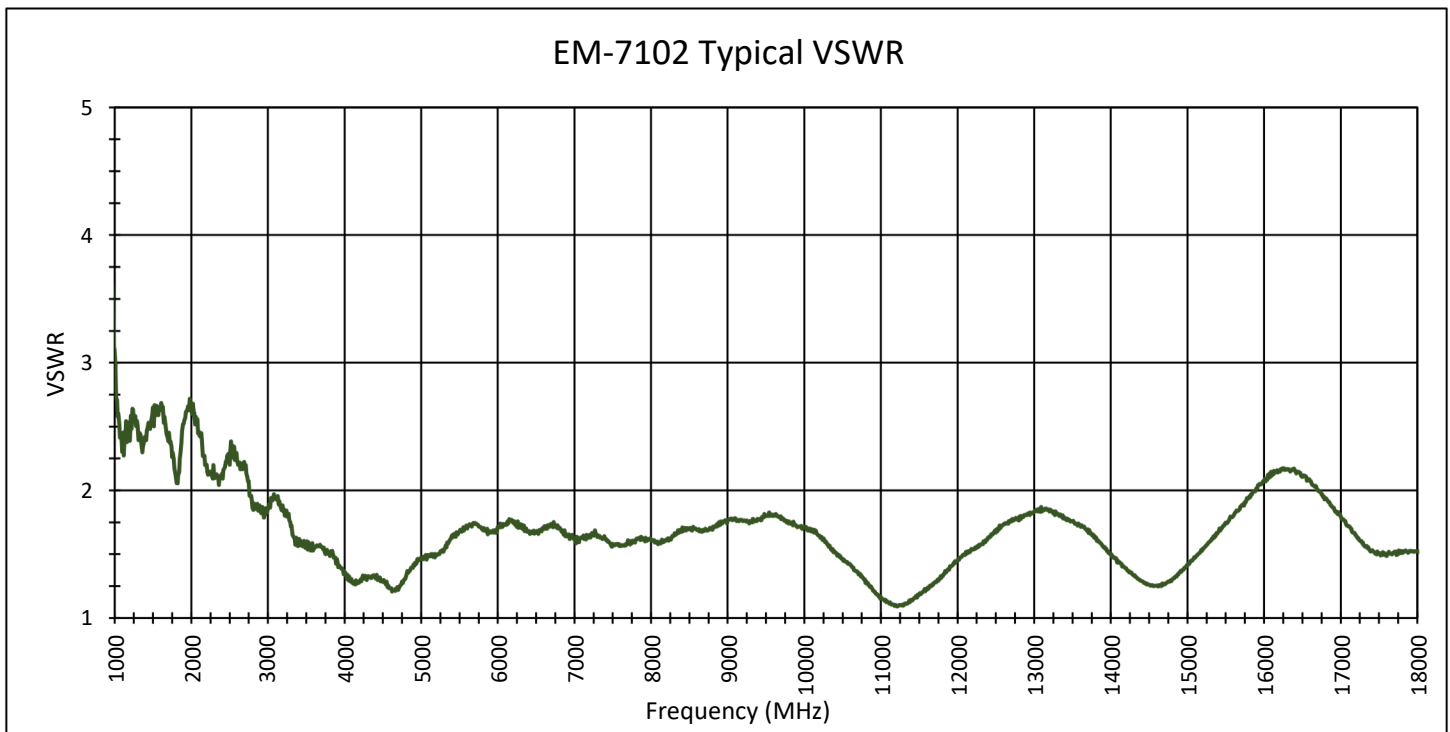
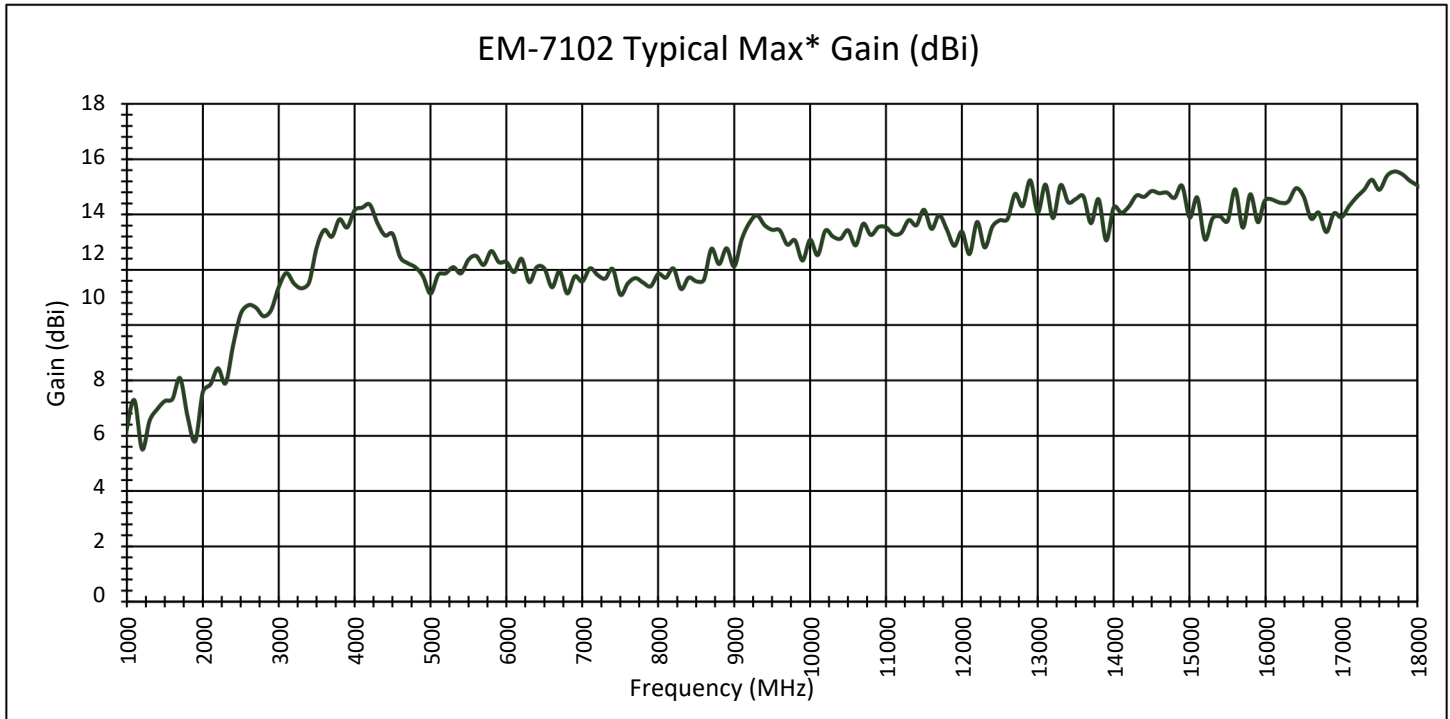
#### Mechanical

<b>Dimensions:</b>	<b>Length:</b> 23.5 cm (9.25 in.) <b>Width:</b> 24.1 cm (9.5 in.) <b>Height:</b> 17.15 cm (6.75 in.) <b>Weight:</b> 1.15 kg (2.2 lbs.)
<b>Mounting Options:</b>	¼-20 Mount with 45° detent (included)
<b>Color Options:</b>	<ul style="list-style-type: none"> <li>• Black</li> <li>• Unfinished Aluminum</li> <li>• Custom Paint Available</li> </ul>

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



## EM-7102 | Dual Ridged Horn Antenna

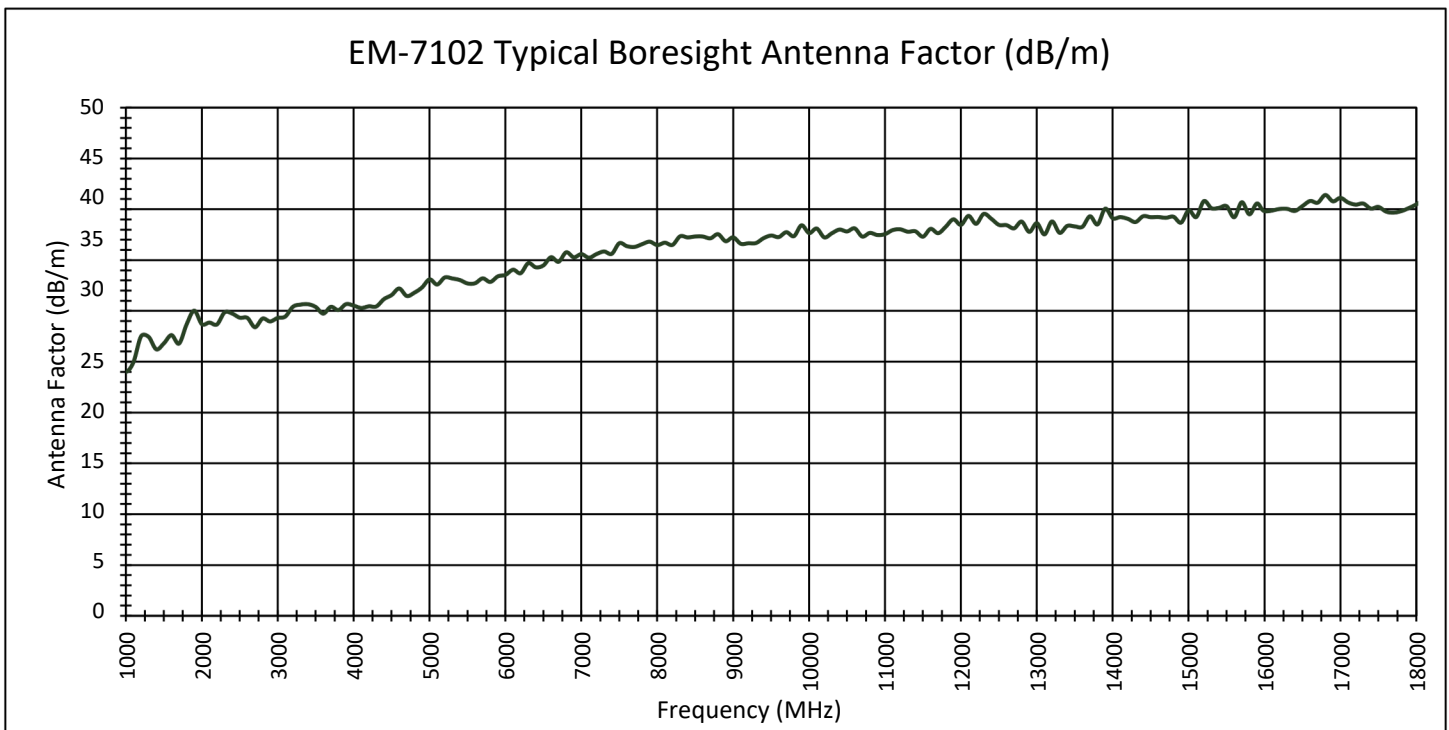
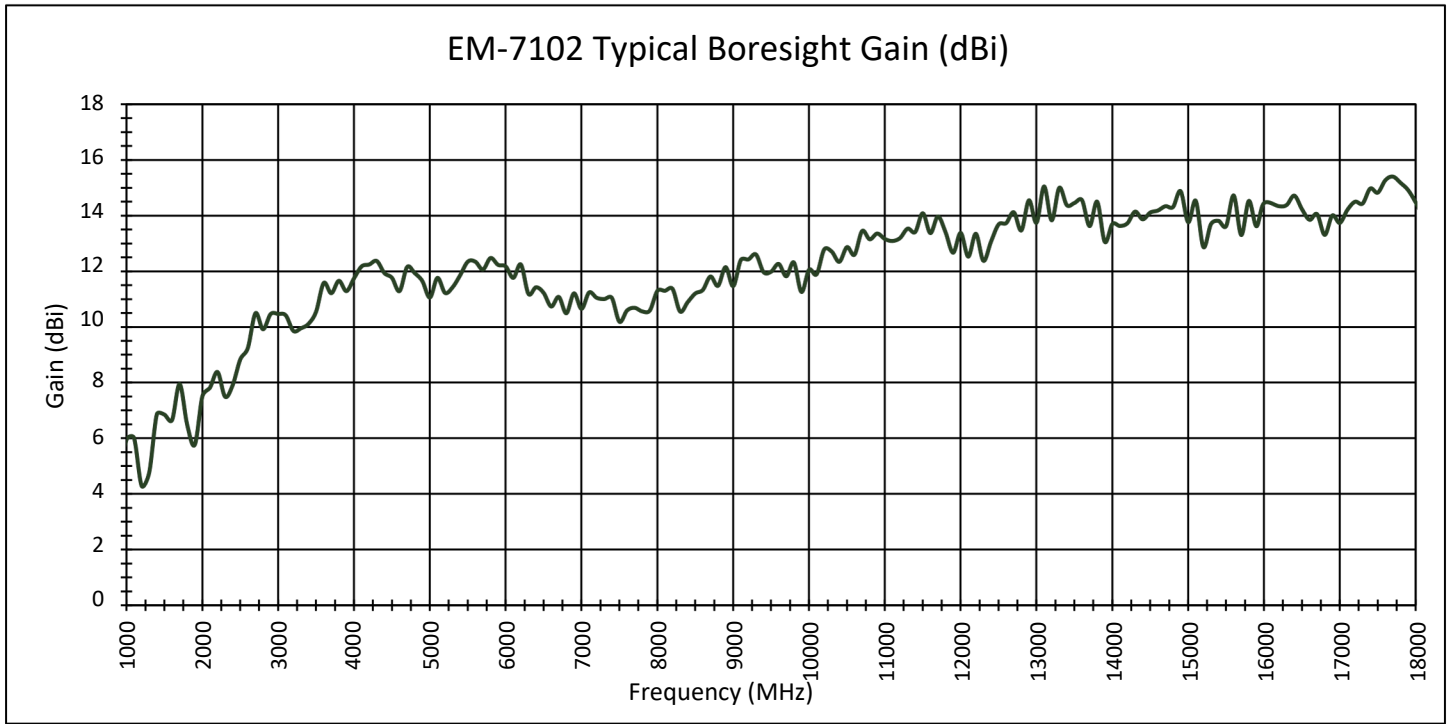


\*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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



### EM-7102 | Dual Ridged Horn Antenna

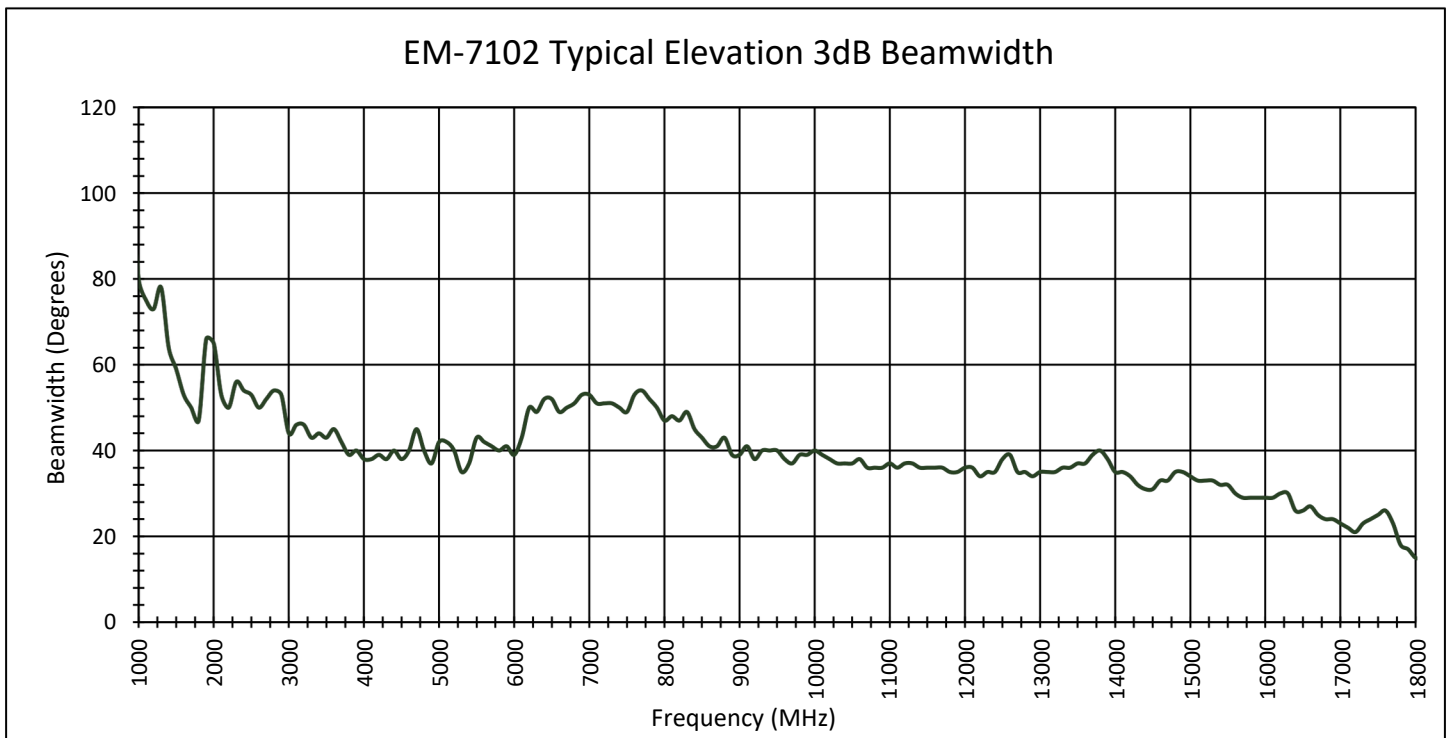
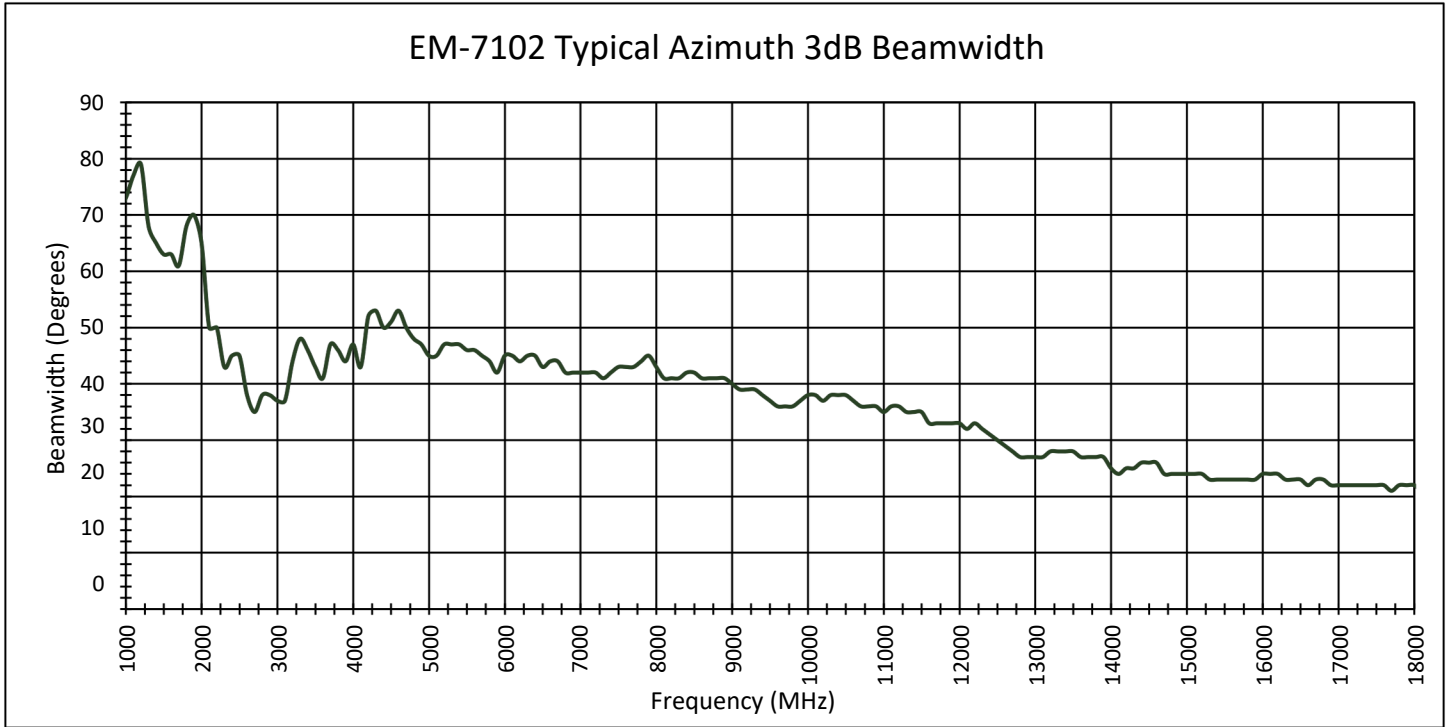


Boresight measurements are taken along the antenna center axis of symmetry.  
Data shown is typical, not guaranteed.

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



## EM-7102 | Dual Ridged Horn Antenna



\* Data shown is typical, not guaranteed.

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

