

## EM-6856 | Antenna, Ultra-Wideband, Passive, Omni-Directional



### Description

The EM-6856 is an Ultra-Wideband Passive Antenna with Omni-Directional radiation patterns covering the entire frequency range of 20MHz-43.5GHz.

As the successor to the EM-6857, the EM-6856 features a size reduction of 38% and weight reduction of 36% over its predecessor while maintaining a nominal gain of > 2dBi across 90% of its operational frequency range. Environmentally hardened with a rugged build and stable performance, this antenna is excellent for SIGINT and related applications.

### Specifications

#### Electrical

<b>Frequency Range:</b>	20 MHz – 43.5 GHz
<b>Polarization:</b>	Linear, Vertical
<b>VSWR:</b>	Average 2:1 above 400 MHz
<b>3dB Beamwidth:</b>	360° Azimuth (Omni-Directional) 45° Average Elevation (70° - 30° Typical)
<b>Impedance:</b>	50Ω, Nominal
<b>Gain:</b>	150 MHz-40 GHz Nominal 2 dBi @ 100 MHz Nominal -12 dBi @ 20 MHz Nominal -44 dBi
<b>Connector:</b>	Type 'K' ( <b>EM-6856</b>   20 MHz-43.5 GHz) SMA ( <b>EM-6856-2</b>   20 MHz-26 GHz) Type 'N' ( <b>EM-6856-1</b>   20 MHz-18 GHz)

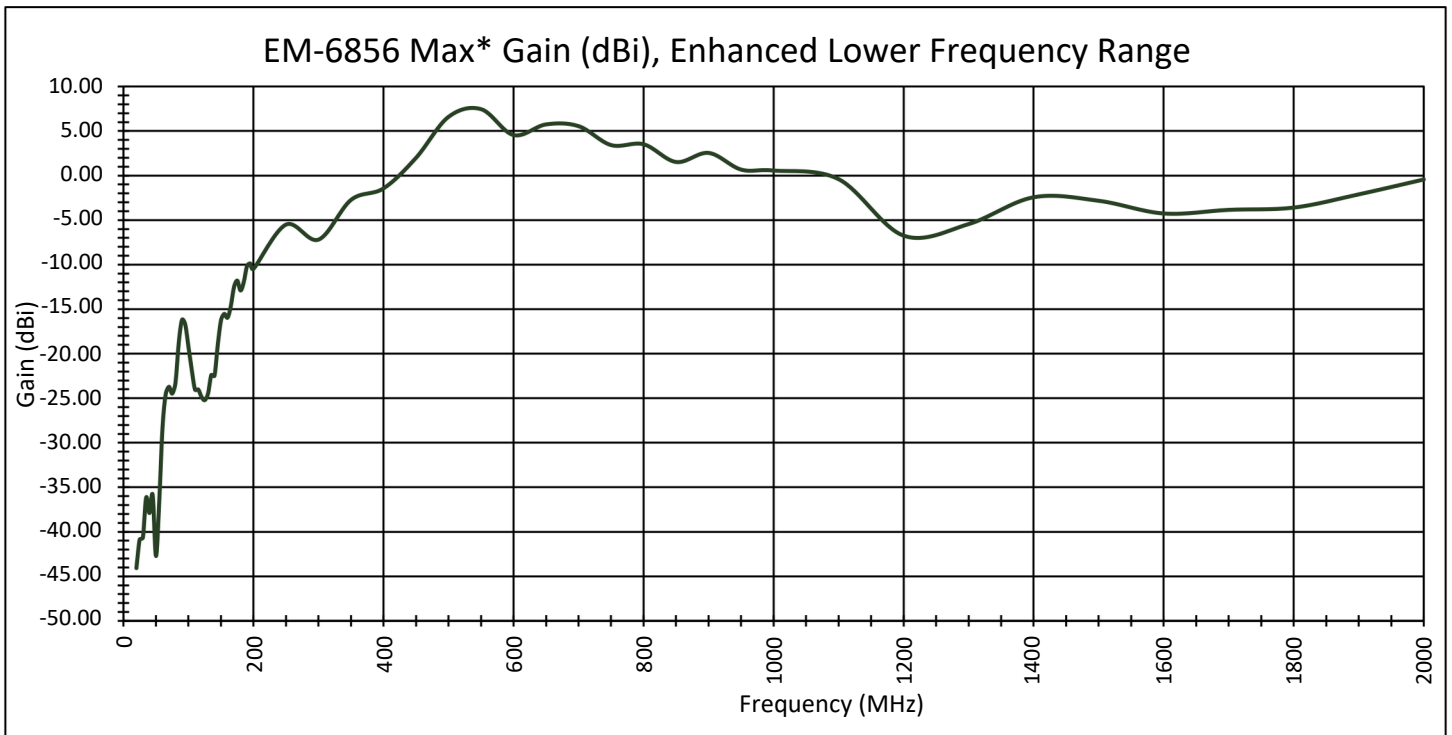
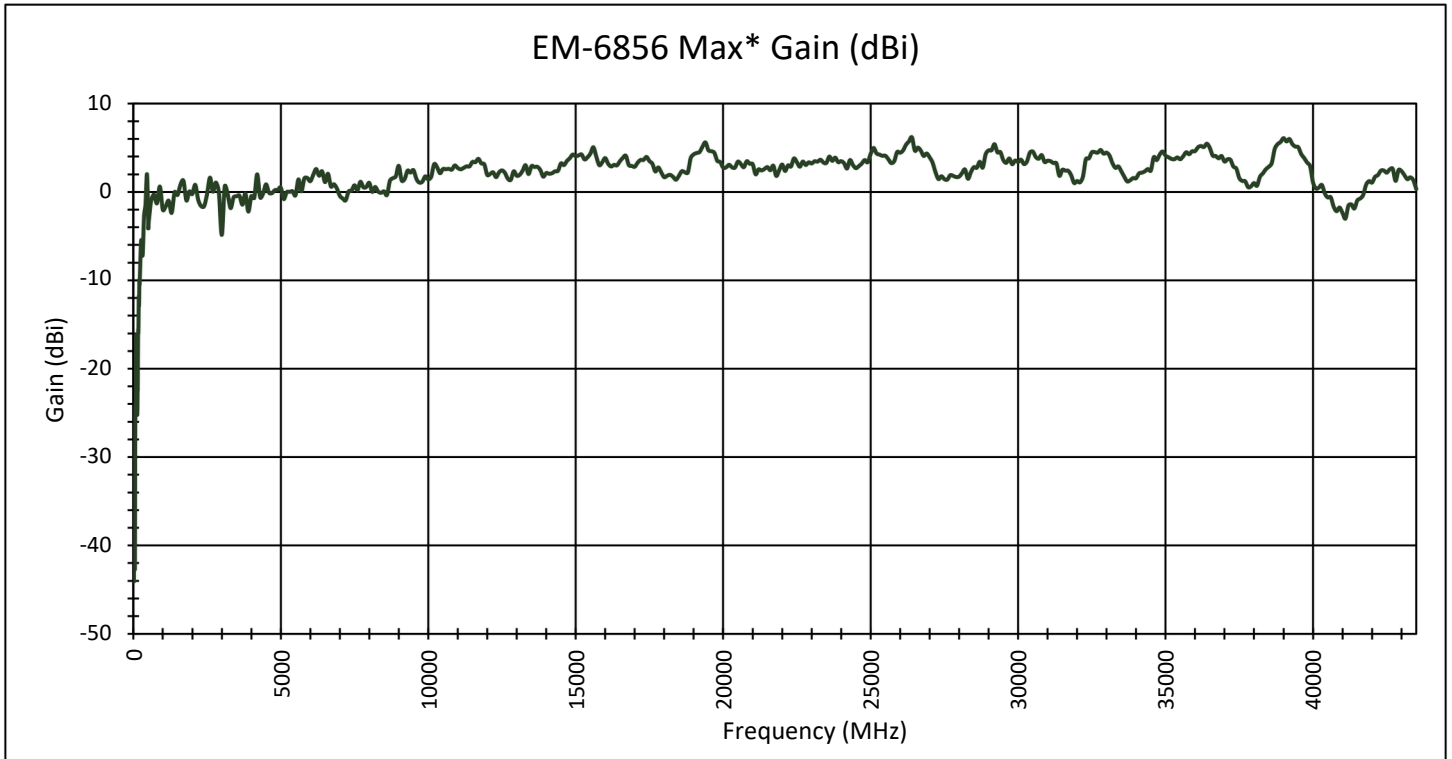
#### Mechanical

<b>Overall Length:</b>	29 cm (11")
<b>Diameter:</b>	11.5 cm (4.5")
<b>Weight:</b>	0.86 kg (1.9 lbs.)
<b>Mounting Options Available:</b>	EM-1607 Tripod Mount (included) EM-1608 Right Angle Wall Mount EM-1108 Rugged Roof Rack Mount EM-1109 Pole Mount
<b>Color Options:</b>	<ul style="list-style-type: none"> <li>Black (default)</li> <li>Custom colors available upon request</li> </ul>

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



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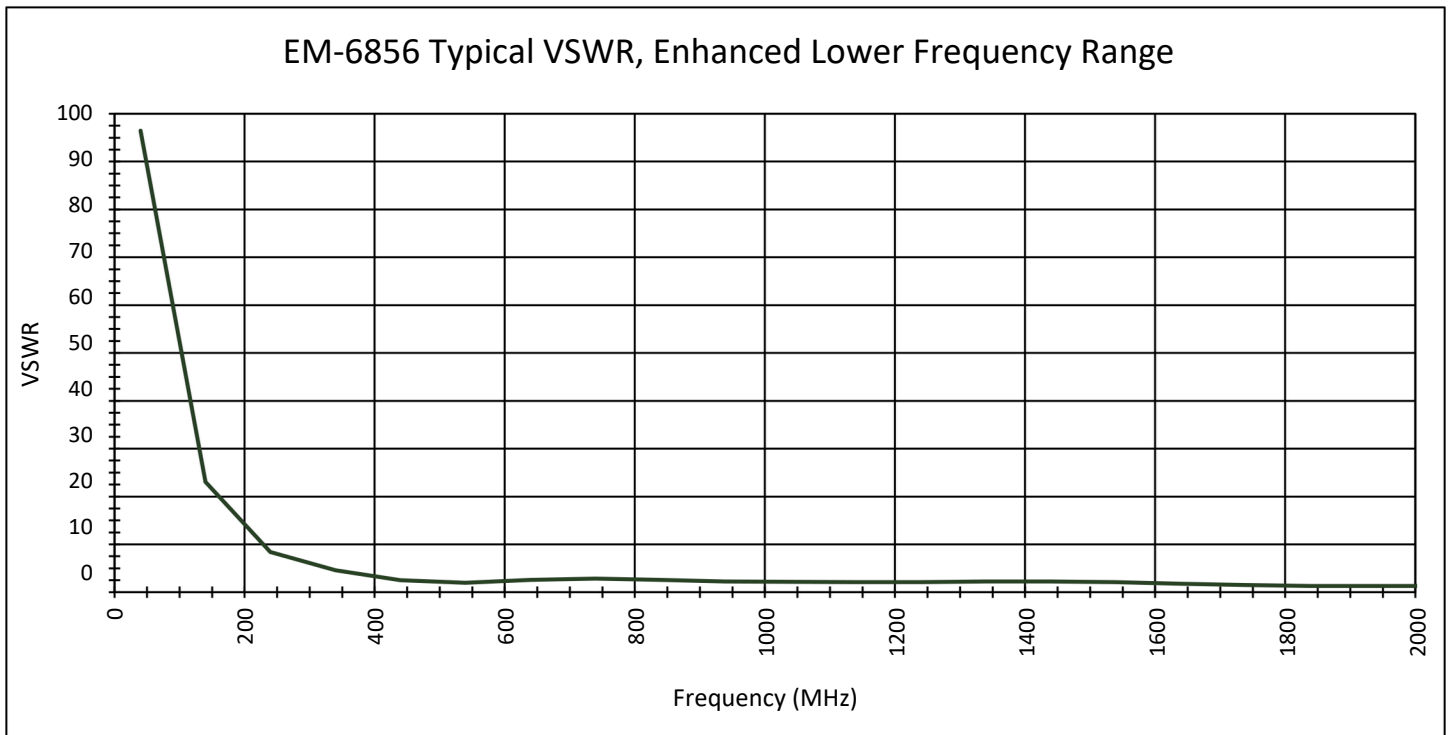
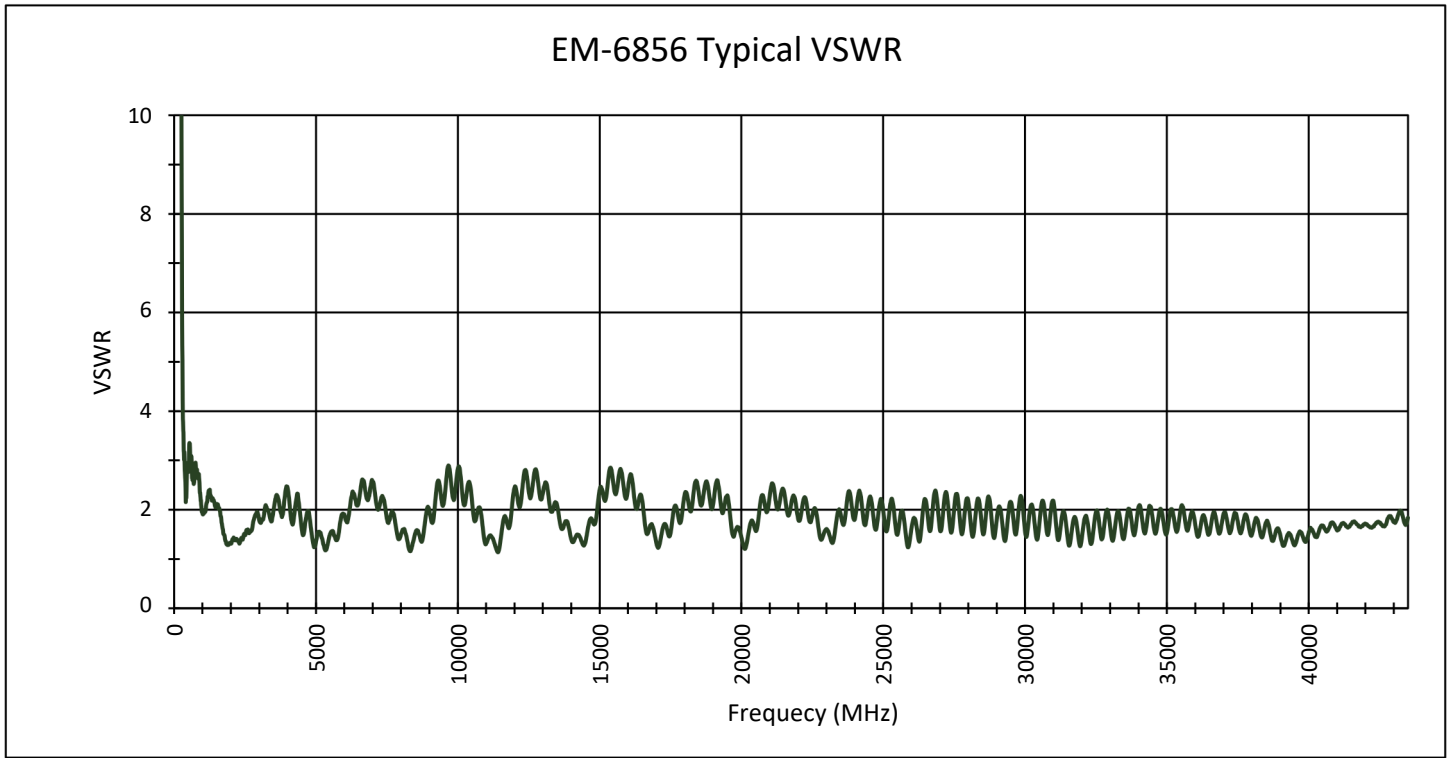


\*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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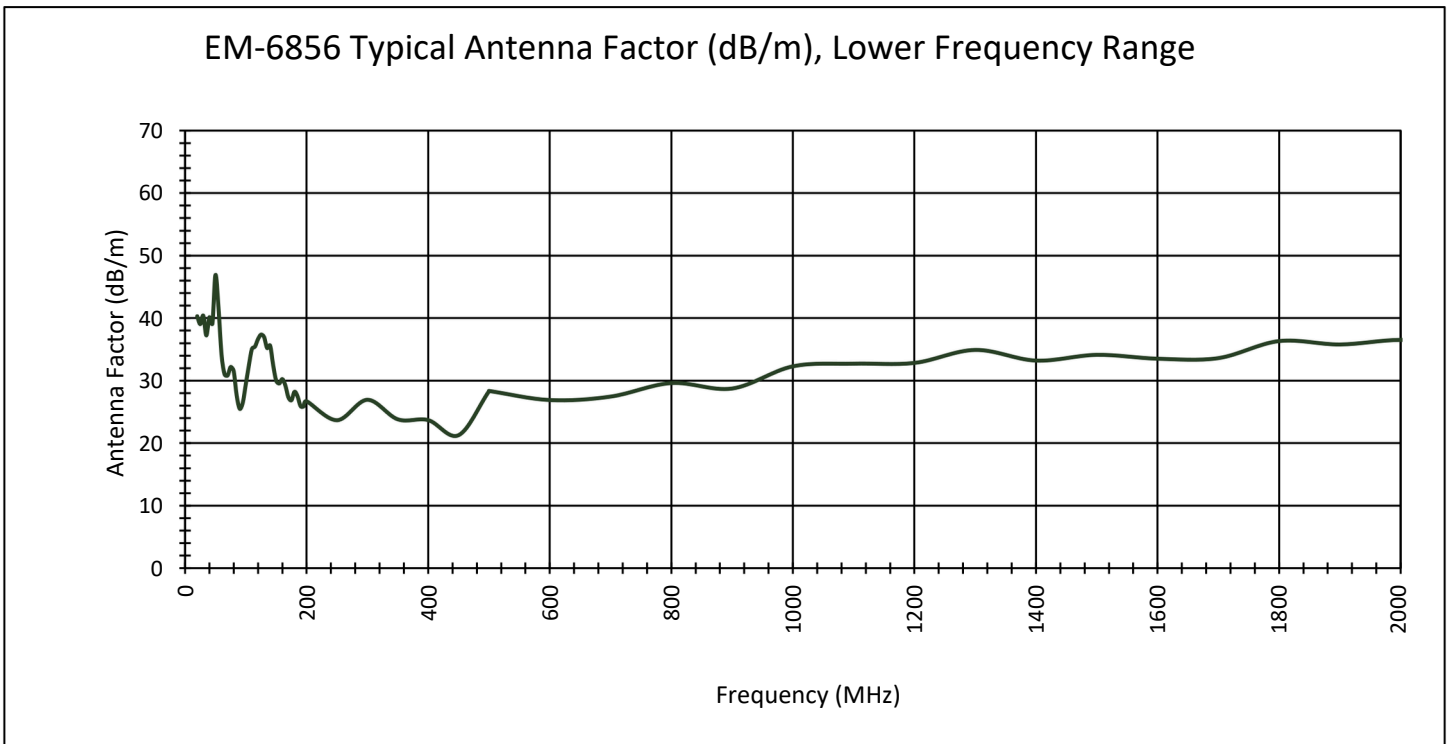
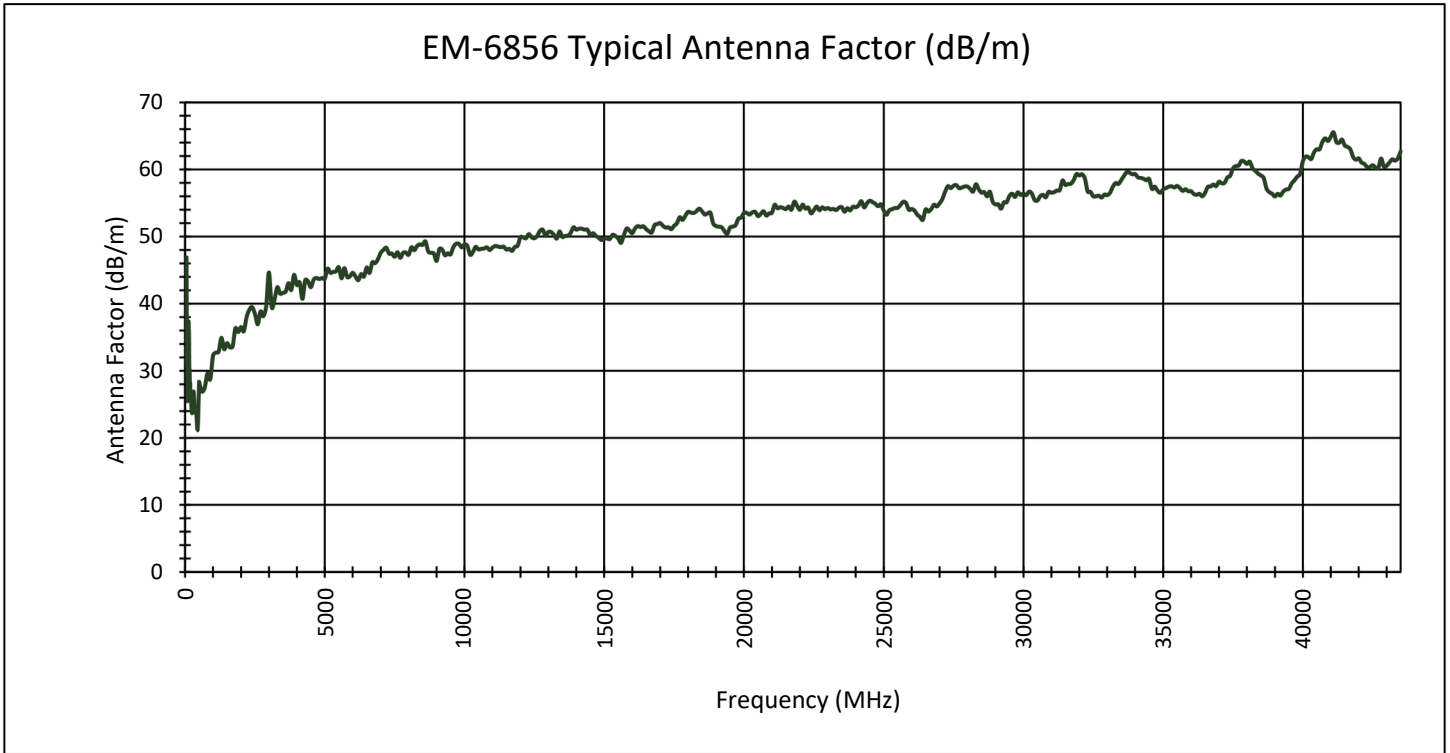


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