

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



Description

The Electro-Metrics 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

Frequency Range: 20 MHz – 43.5 GHz

Polarization: Linear, Vertical

VSWR: Average 2:1 above 400 MHz

3dB Beamwidth: 360° Azimuth (Omni-Directional)
45° Average Elevation (70° - 30° Typical)

Impedance: 50Ω, Nominal

Gain: 150MHz-40GHz Nominal 2dBi

@100MHz Nominal -12dBi

@20MHz Nominal -44dBi

Connector: Type 'K' (**EM-6856** | 20MHz-43.5GHz)

SMA (**EM-6856-2** | 20MHz-26GHz)

Type 'N' (**EM-6856-1** | 20MHz-18GHz)

Mechanical

Dimensions:

Overall Length: 29 cm (11")

Diameter: 11.5 cm (4.5")

Weight: 0.86 kg (1.9 lbs.)

Mounting Options Available:

EM-1607 Tripod Mount (included)

EM-1608 Right Angle Wall Mount

EM-1108 Rugged Roof Rack Mount

EM-1109 Pole Mount

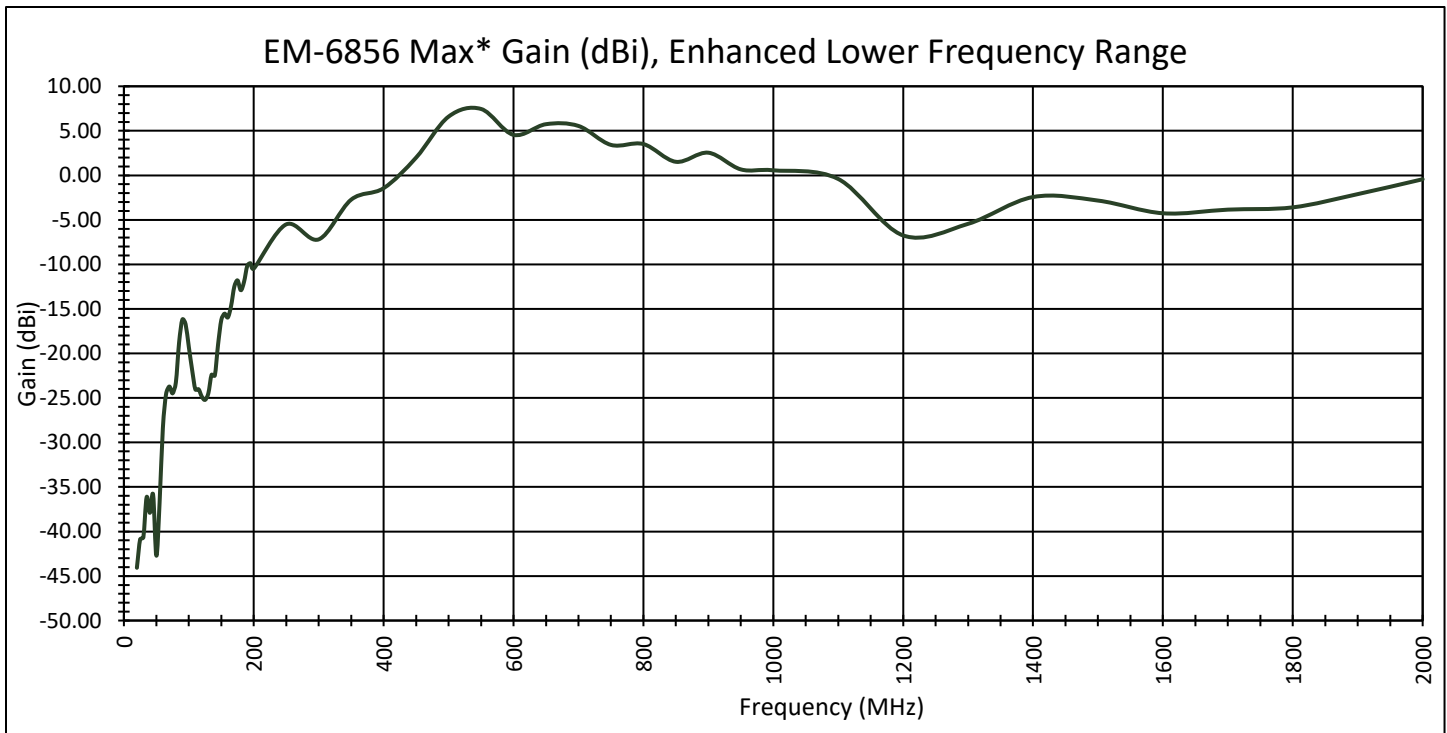
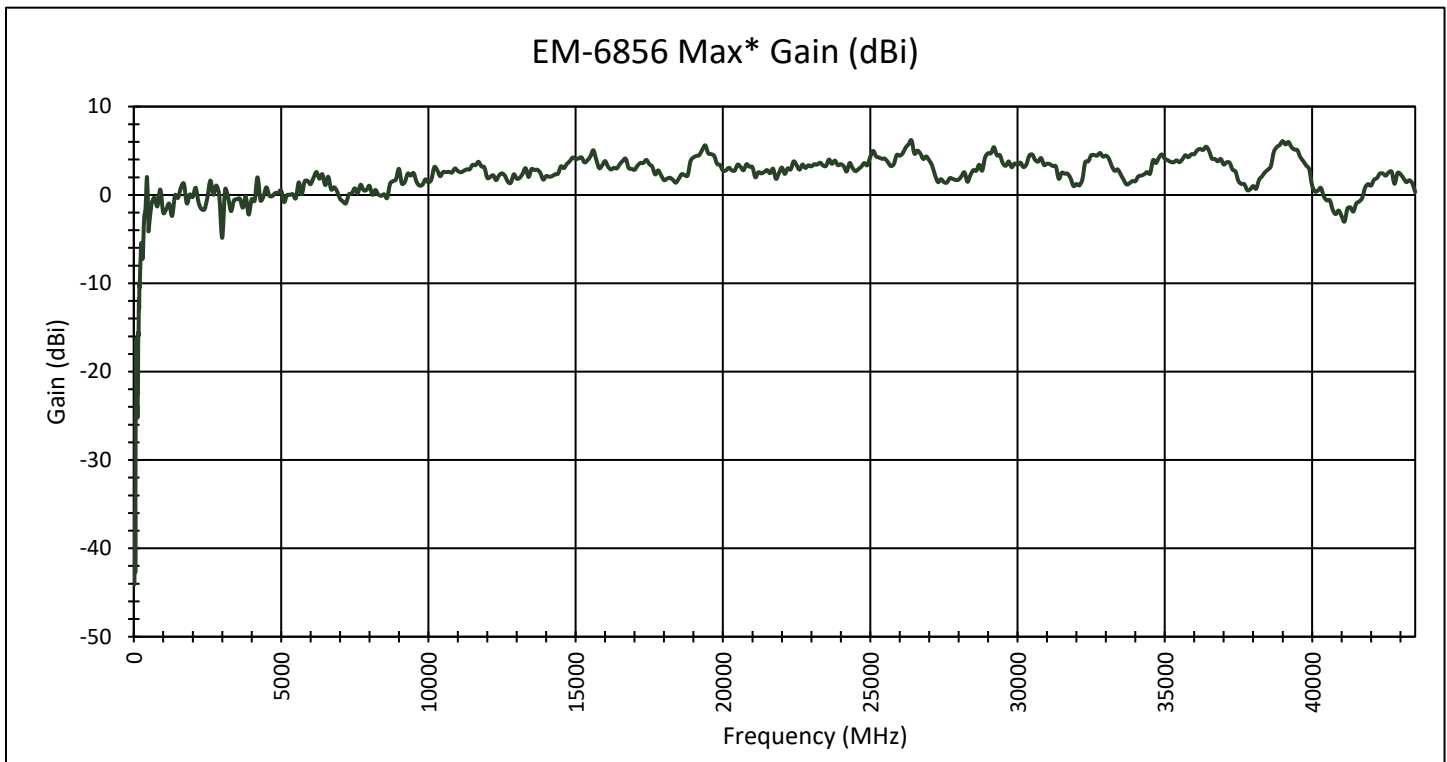
Color Options:

- Black (default)
- Custom colors available upon request

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



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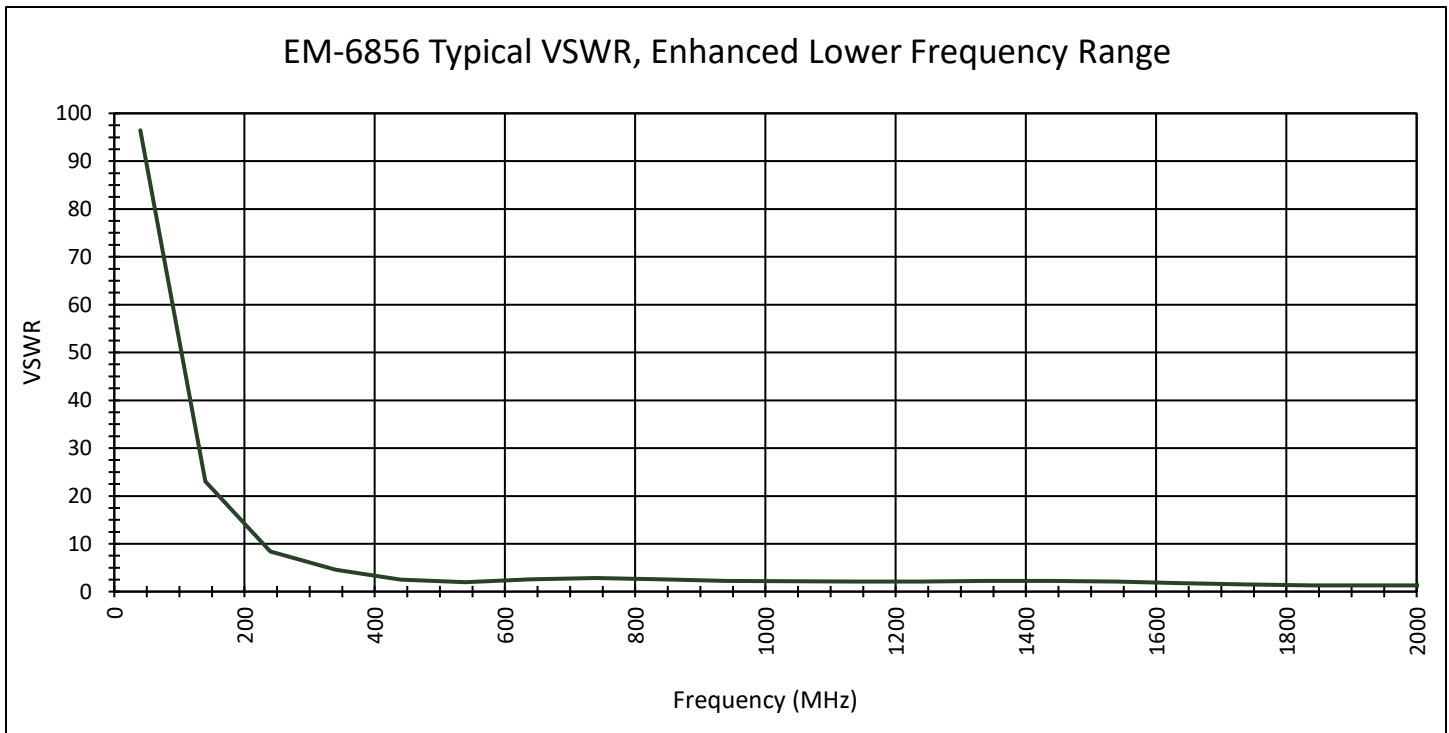
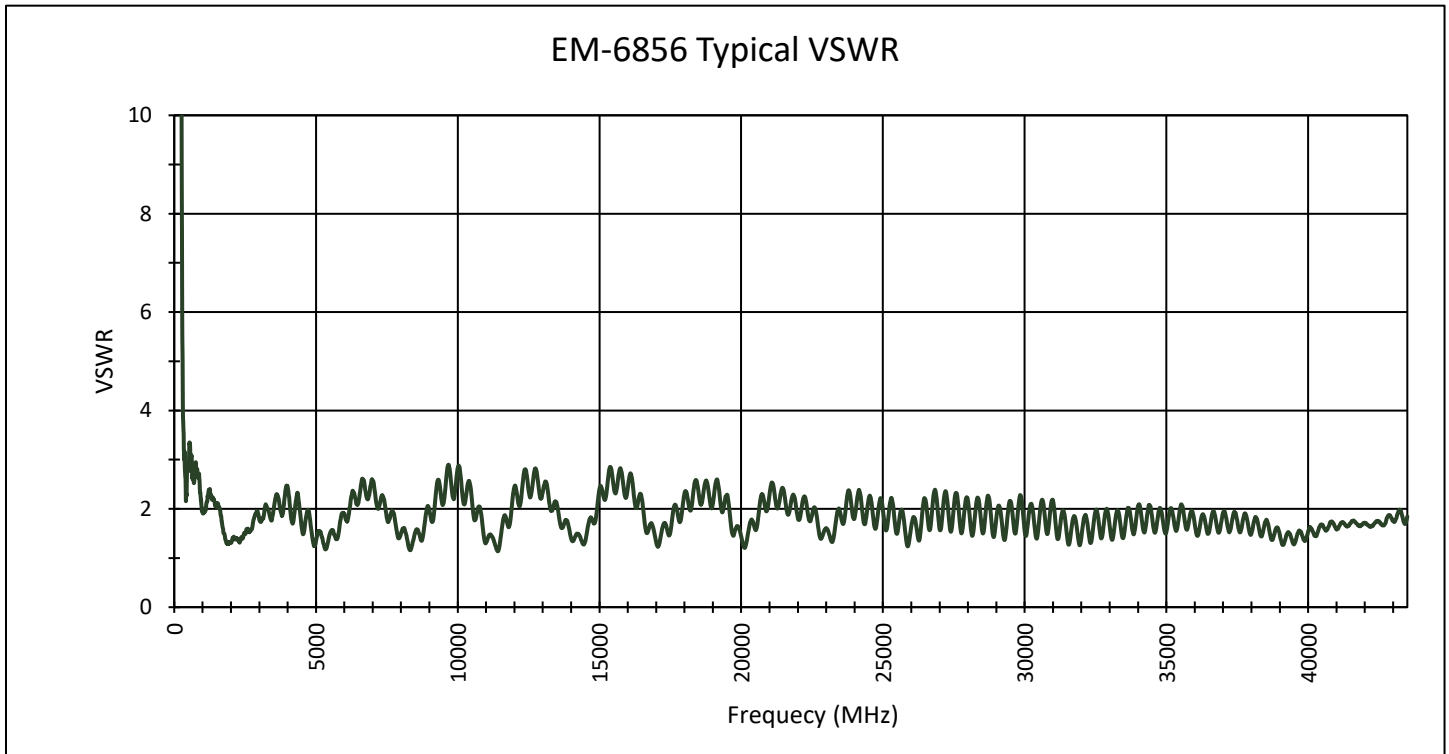


*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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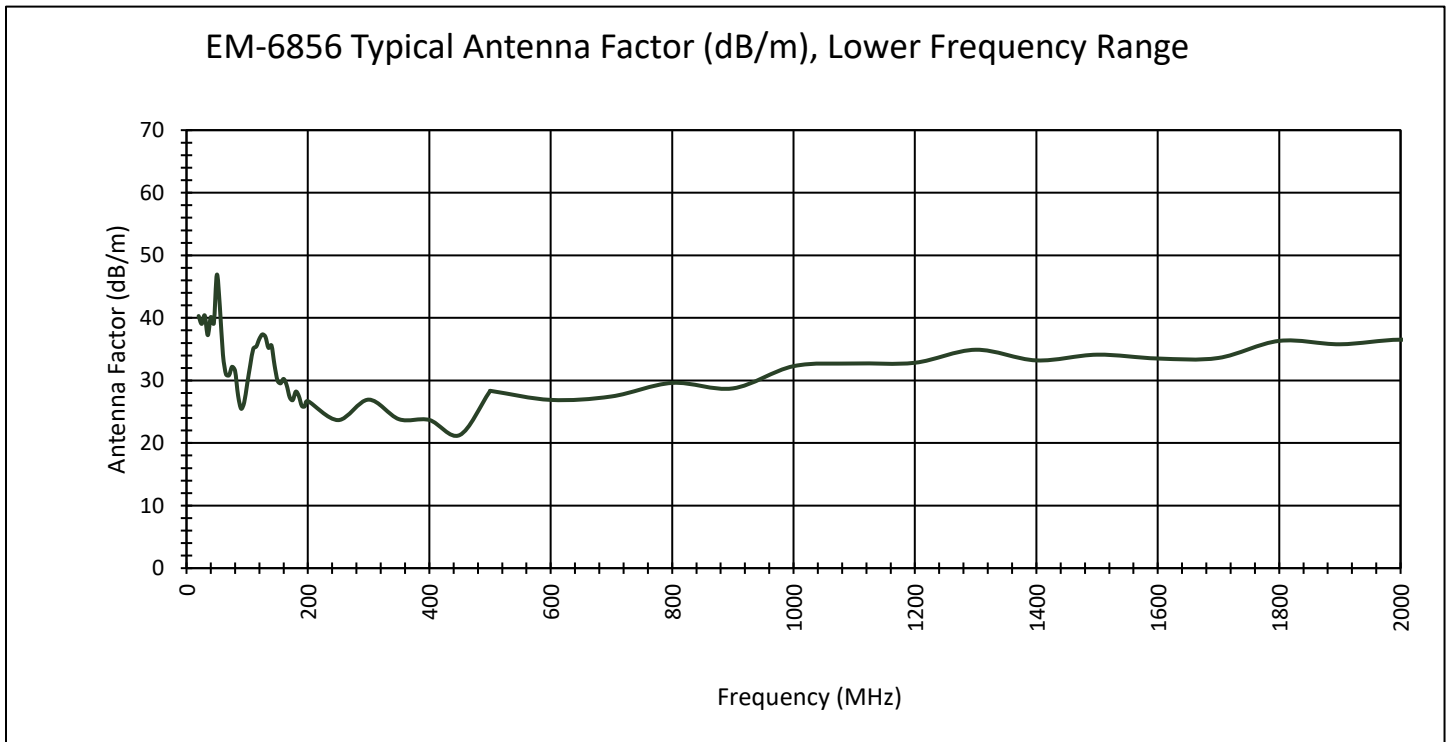
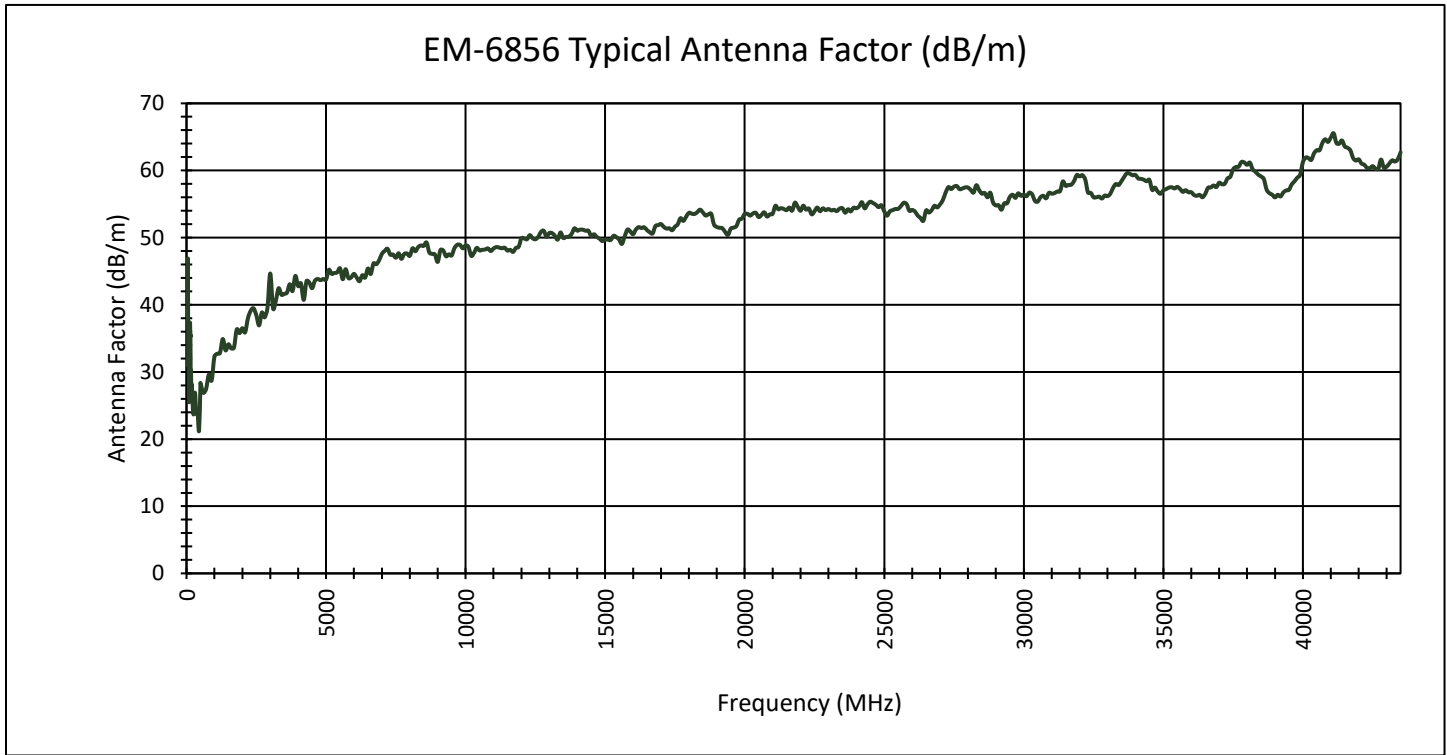


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