

## 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-40GHz.

As the successor to the EM-6854, the EM-6856 features a size reduction of 50% and weight reduction of 58% over its predecessor while maintaining a nominal gain of > 2dBi across 90% of its operational frequency range. With a rugged build and stable performance, this antenna is excellent for SIGINT and related applications.



### Specifications

#### Electrical

**Frequency Range:** 20 MHz – 40 GHz

**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' (20MHz-40GHz) (default)

SMA (20MHz-26GHz)

Type 'N' (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 Roof Rack Mount

EM-1109 Rugged Roof Rack Mount

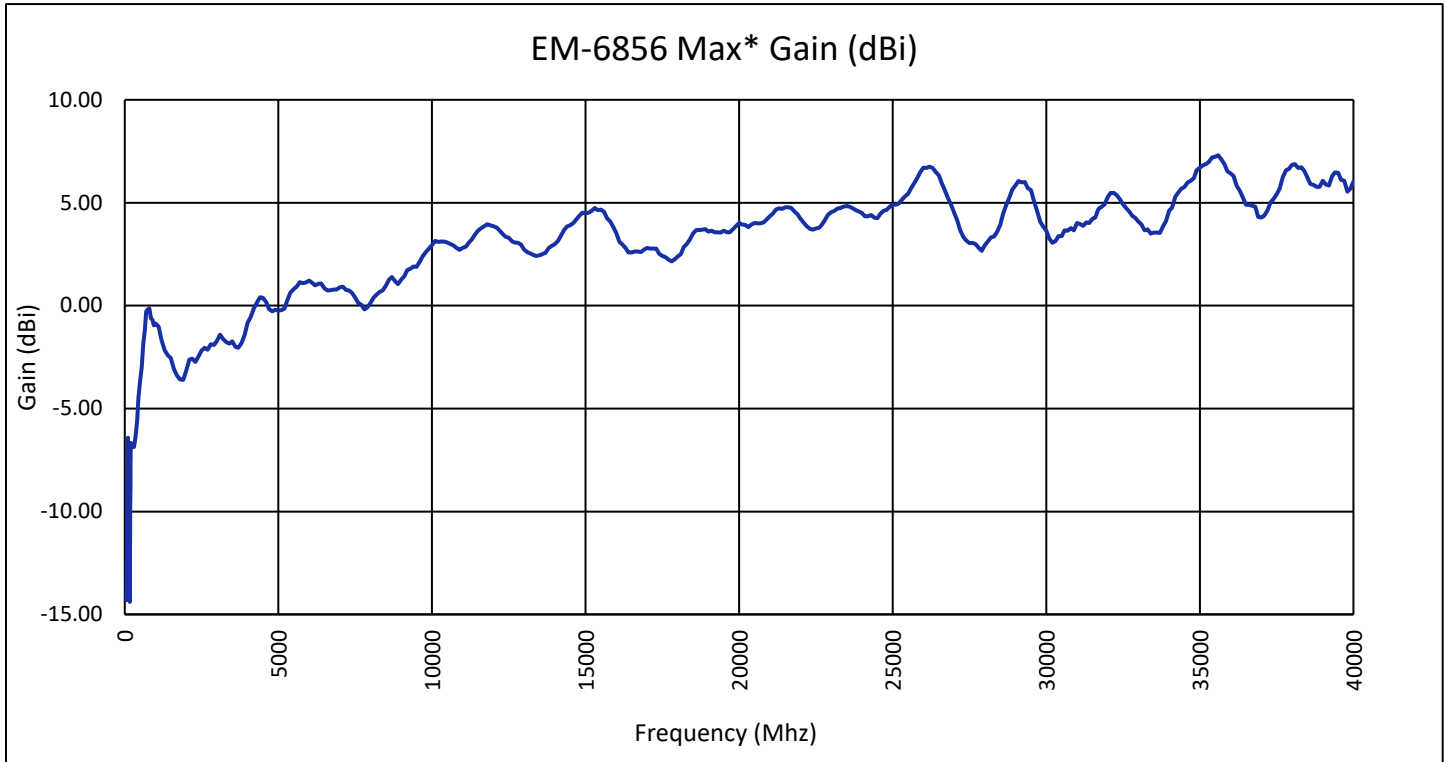
##### Color Options:

- 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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