

## EM-6841 | Antenna, Rugged, Ultra-Wideband, Passive, Omni-Directional



### Description

The Electro-Metrics EM-6841 is a Rugged Ultra-Wideband Passive Antenna with Omni-Directional radiation patterns covering the frequency range of 20MHz-43.5GHz.

The EM-6841 is environmentally hardened and has passed MIL-STD-810H environmental testing for Hot Storage, Hot Operation, Cold Storage, Blowing Rain, Blowing Sand, Functional Shock, On-Road Shock, Off-Road Shock, Transit Drop Shock, Off Road Vibration, and Jet Aircraft Vibration.

### Specifications

#### Electrical

**Frequency Range:** 20 MHz – 43.5 GHz

**VSWR:** Average 2.3:1 above 400 MHz

**3dB Beamwidth:** 360° Azimuth (Omni-Directional)

45° Average Elevation (70° - 30° Typical)

**Impedance:** 50Ω, Nominal

**Gain:** 150MHz-40GHz Nominal > 0dBi

@100MHz Nominal -16dBi

@20MHz Nominal -44dBi

**Connector:** Type 'K' (EM-6841 | 20MHz-43.5GHz)

SMA (EM-6841-2 | 20MHz-26GHz)

Type 'N' (EM-6841-1 | 20MHz-18GHz)

#### Mechanical

##### Dimensions:

Overall Length: 36.8 cm (14.5")

Diameter: 11.5 cm (4.5")

Weight: 1.37 kg (3.02 lbs.)

##### Mounting Options Available:

(4) 3/8 – 16 TPI Bolts (included)

XF-N200 1/4 – 20 Tripod Mount (included)

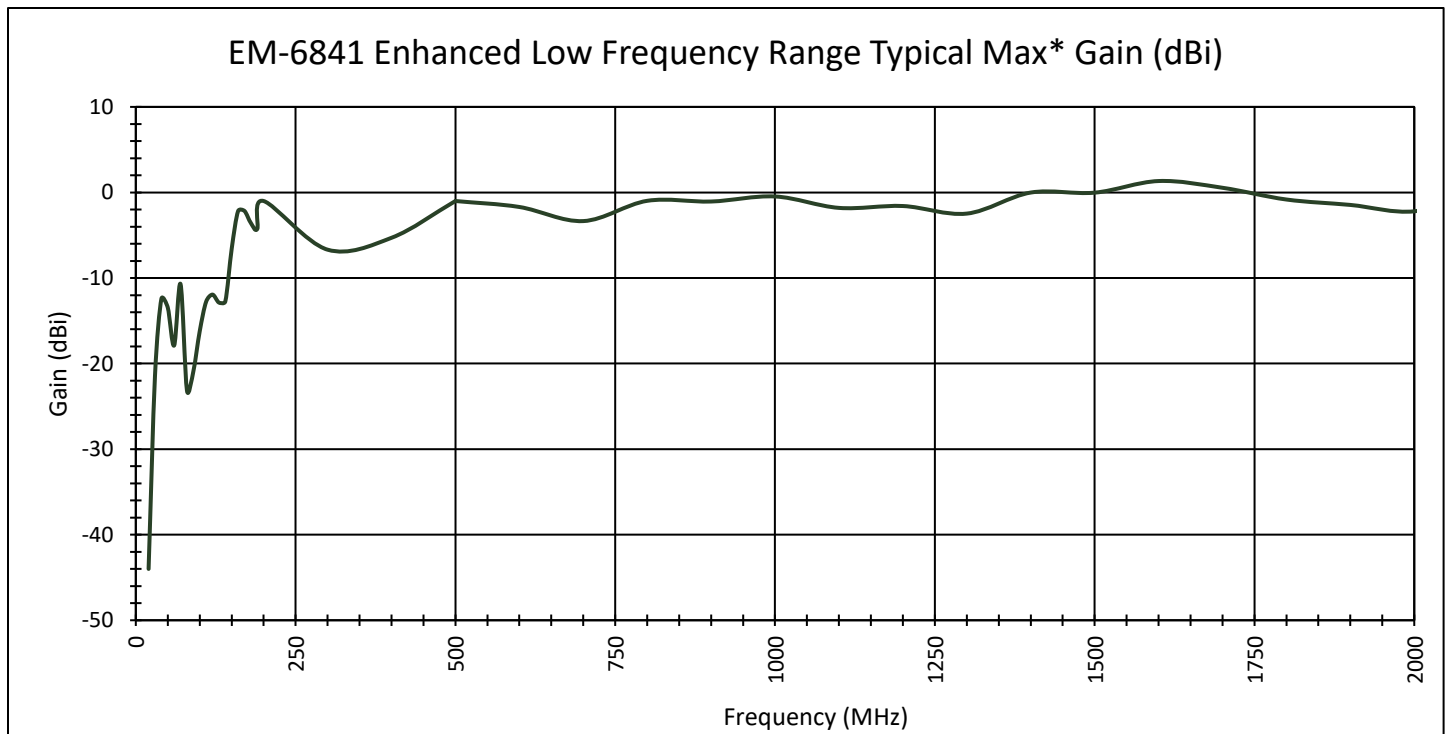
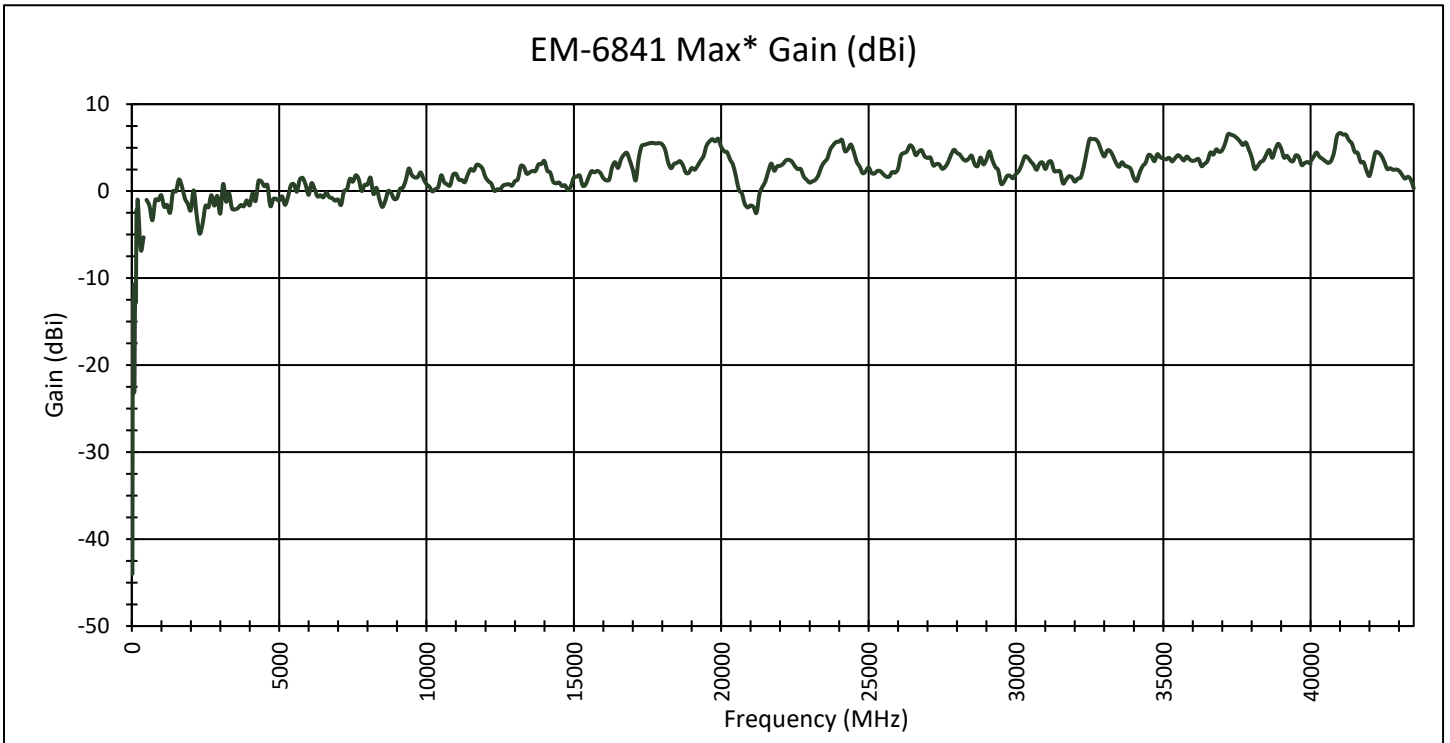
##### Color Options:

- 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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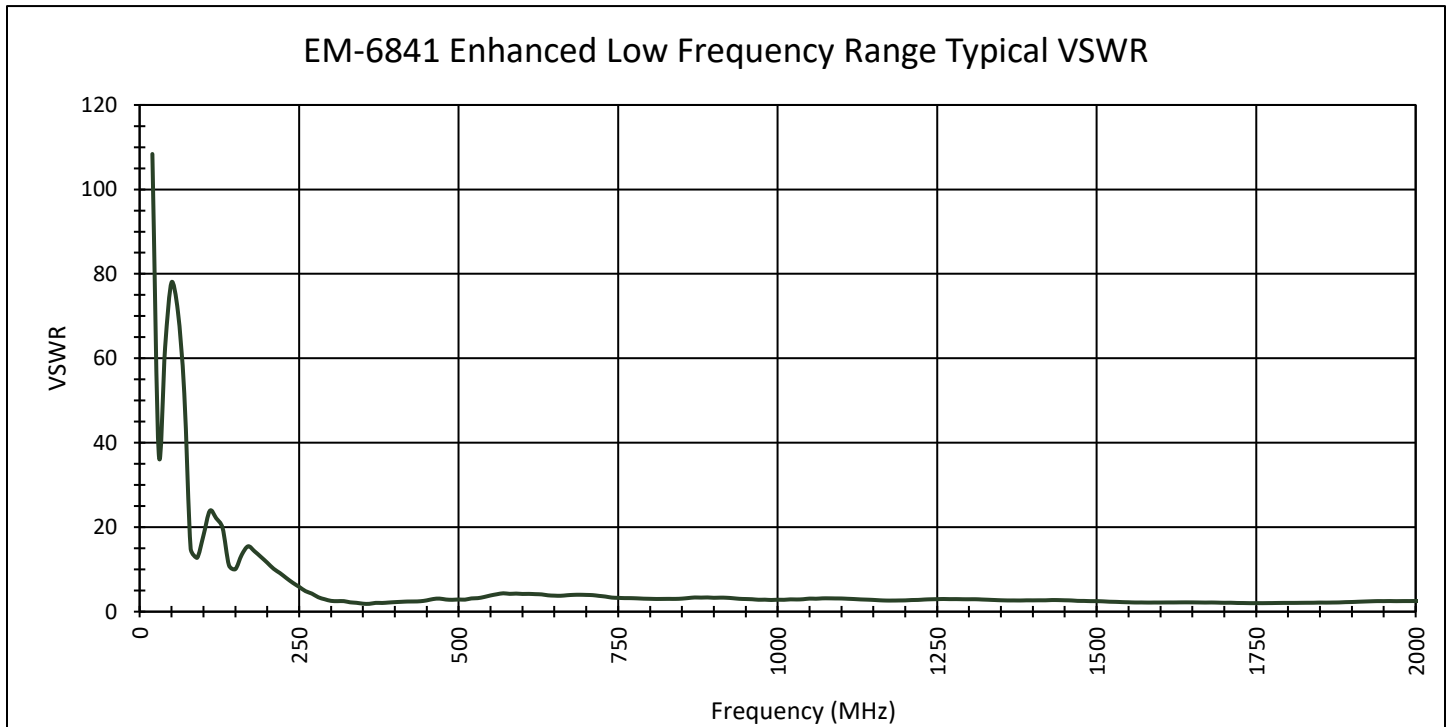
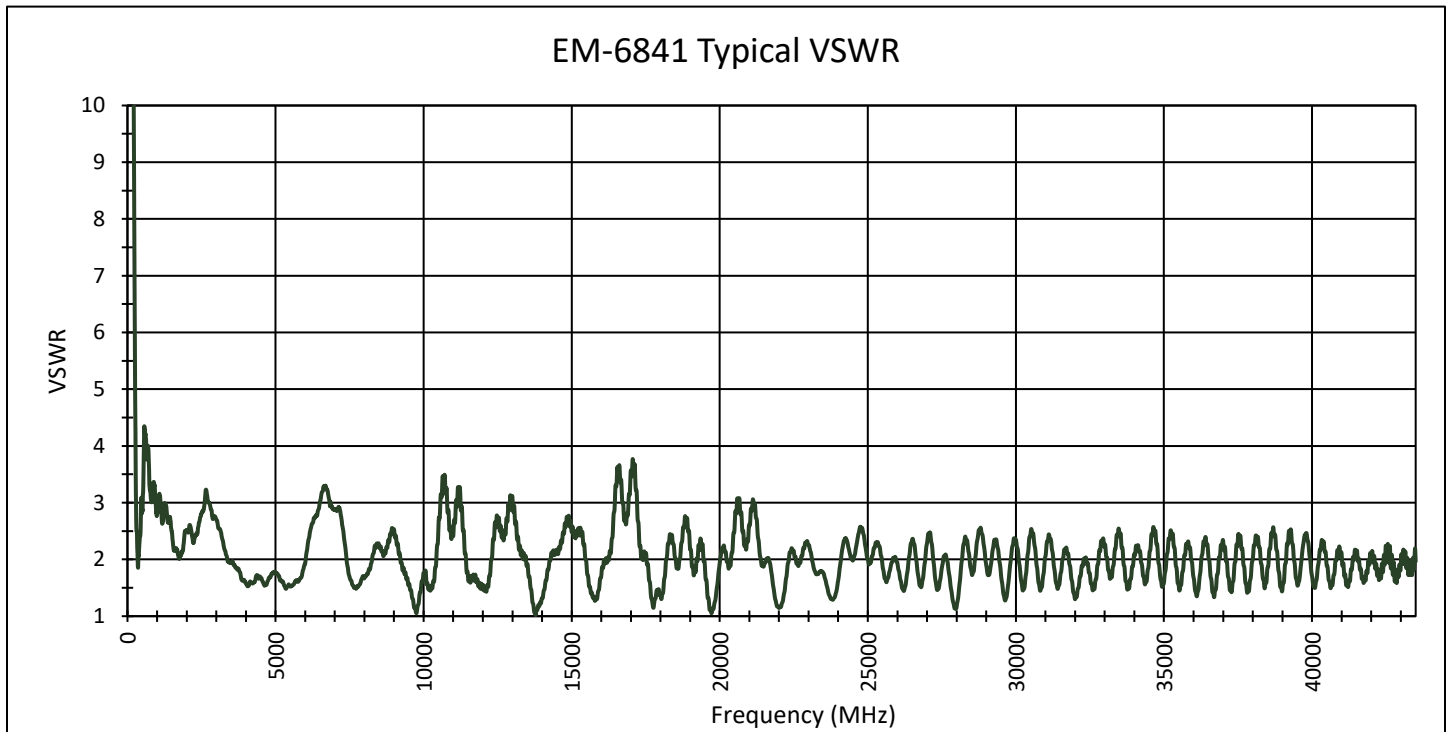


\*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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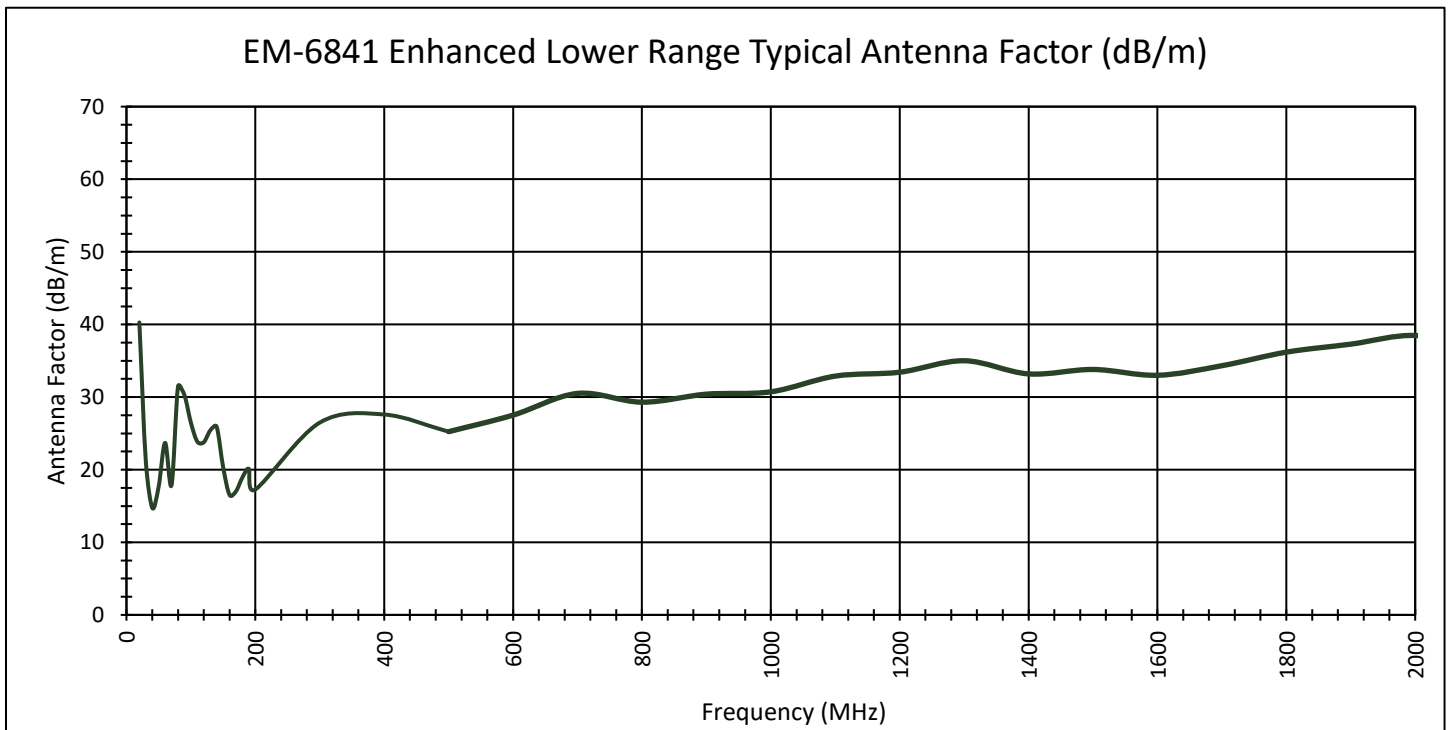
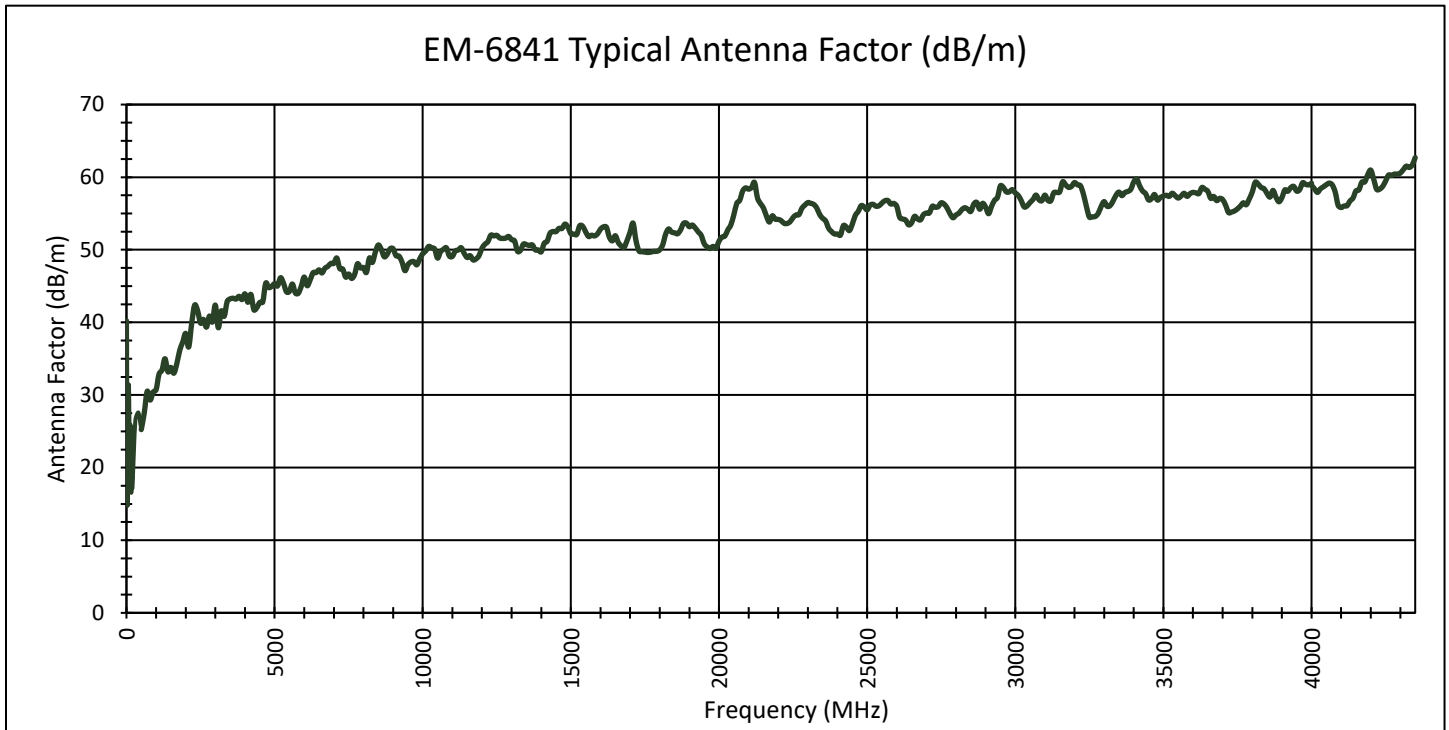


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