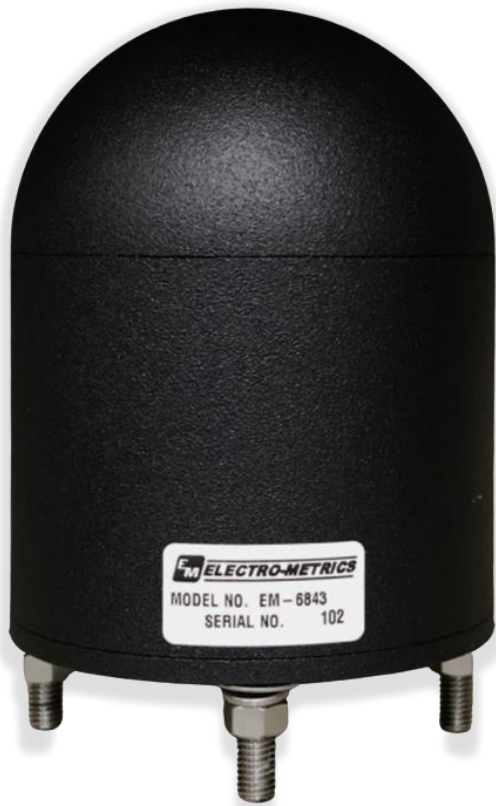


## EM-6843 | Antenna, Rugged, Ultra-Wideband, Passive, Omni-Directional



### Description

The Electro-Metrics EM-6843 is a S.W.A.P. (Size, Weight, and Power) focused Rugged Ultra-Wideband Passive Antenna covering the frequency range of 300MHz-43.5GHz. The EM-6843 offers stable performance with Omni-Directional radiation patterns across its entire frequency range.

The EM-6843 features an environmentally hardened radome offering resistance to rain, sand, impacts, shocks and vibrations.

### Specifications

#### Electrical

**Frequency Range:** 300 MHz – 43.5 GHz

**VSWR:** Average 2:1 above 600 MHz

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

40° Average (80° – 20° Typical) Elevation

**Impedance:** 50Ω, Nominal

**Gain:** -2.5dBi Typical 600MHz-40GHz

-7.5dBi @500MHz Nominal

-15.1 dBi @300MHz Nominal

**Connector:** Type 'K' (**EM-6843** | 300MHz-43.5GHz)

SMA (**EM-6843-3** | 300MHz-26GHz)

Type 'N' (**EM-6843-1** | 300MHz-18GHz)

#### Mechanical

##### Dimensions:

Height: 7.0 in. (177.8 mm) Without Studs

8.25 in. (209.6 mm) With Studs

Diameter: 5.3 in. (134.6 mm)

Weight: 2.4 lbs. (1.0 kg)

##### Mounting Options:

Universal NATO 4-Hole Mount (included)

(4x 3/8 – 16 TPI Bolts)

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

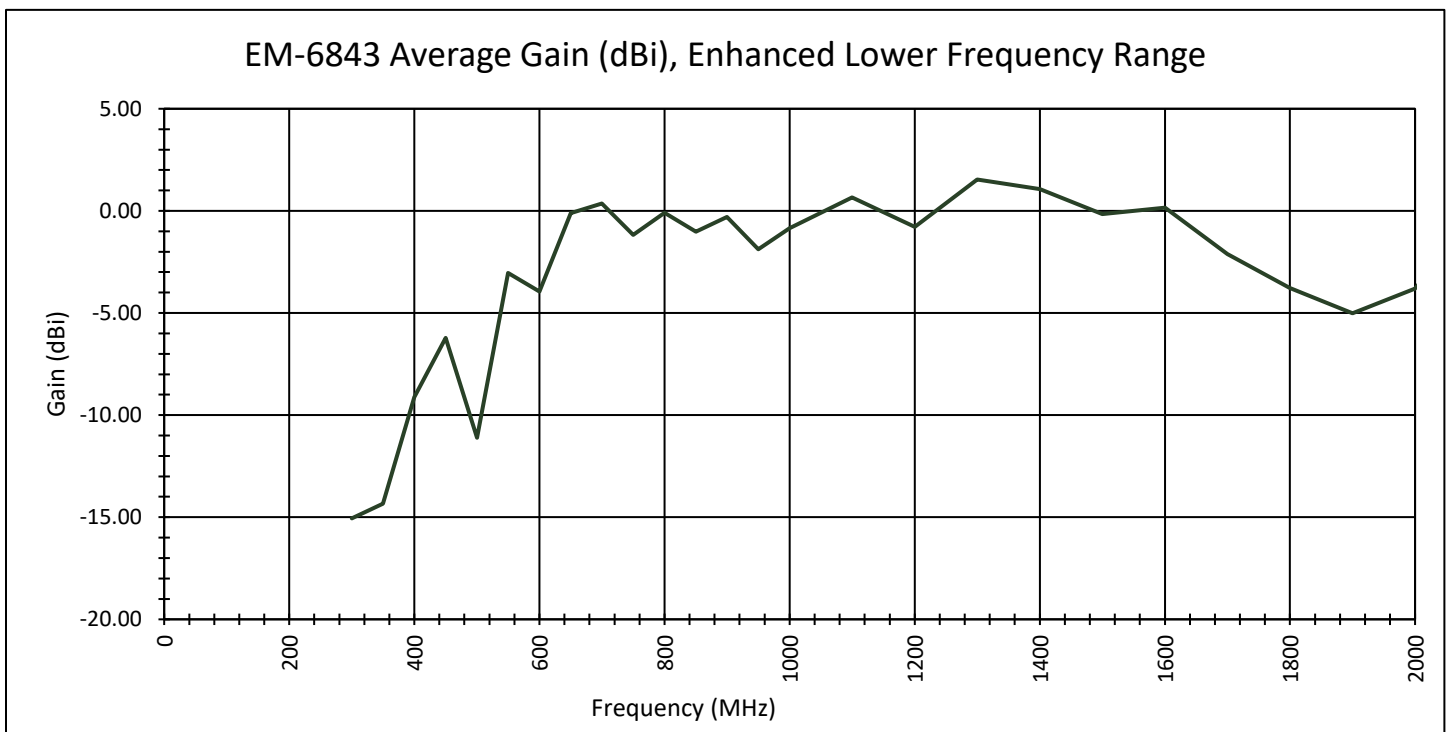
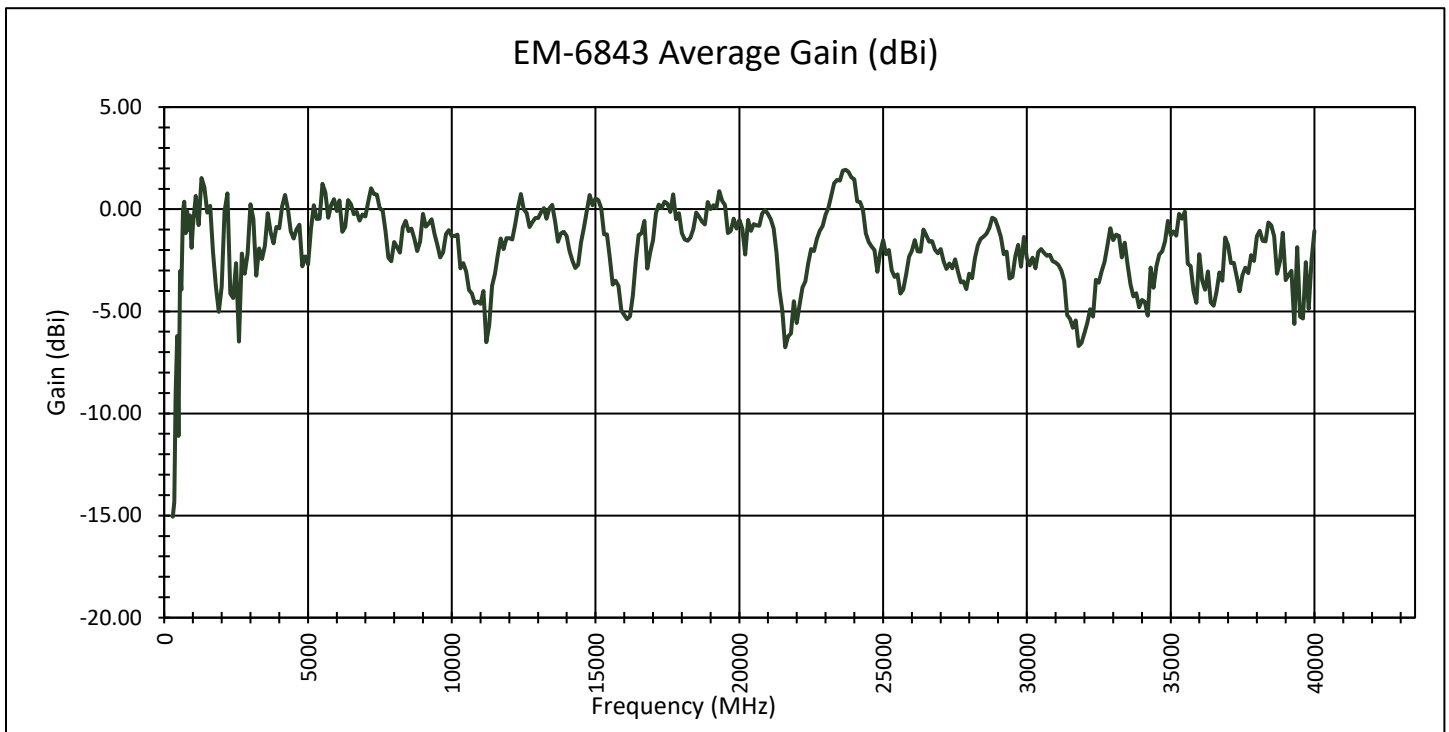
##### Color Options:

- 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.



**EM-6843 | Antenna, Rugged, Ultra-Wideband, Passive, Omni-Directional**

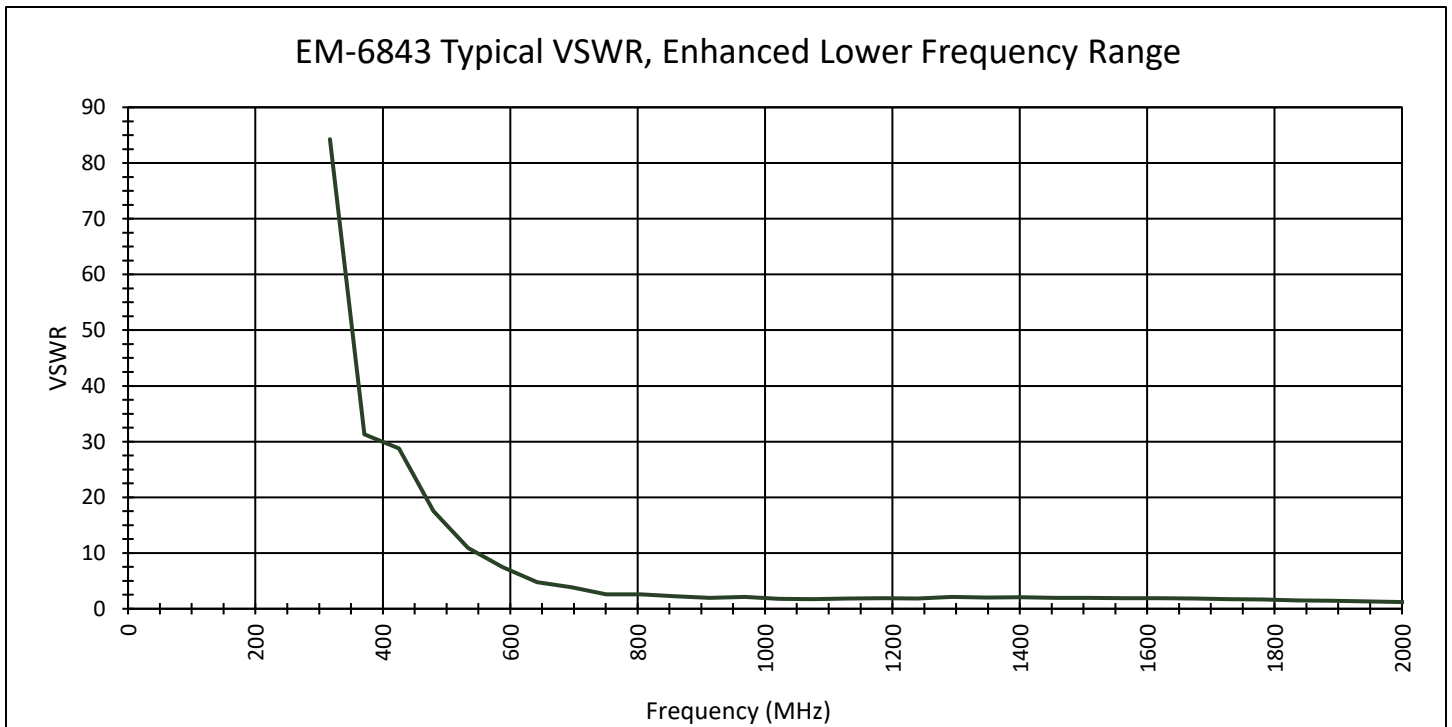
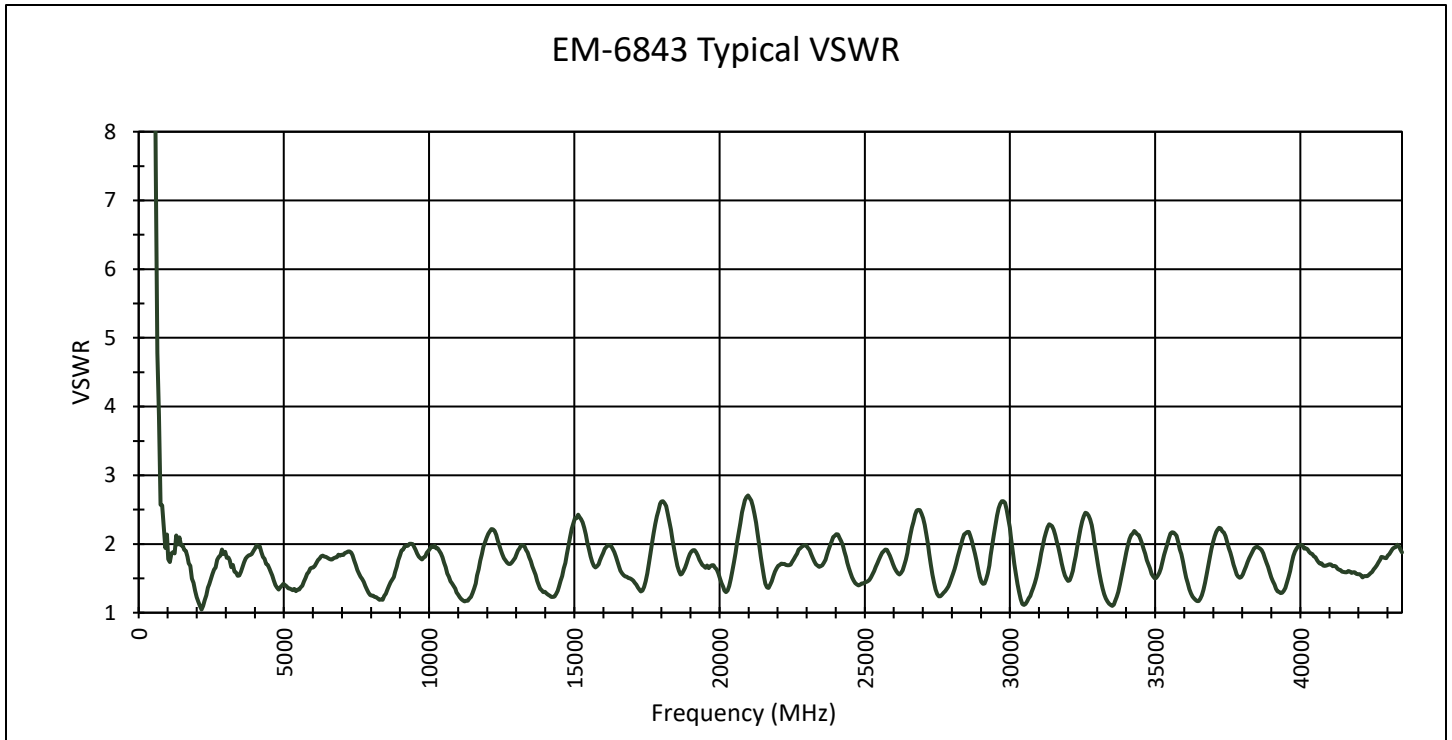


\*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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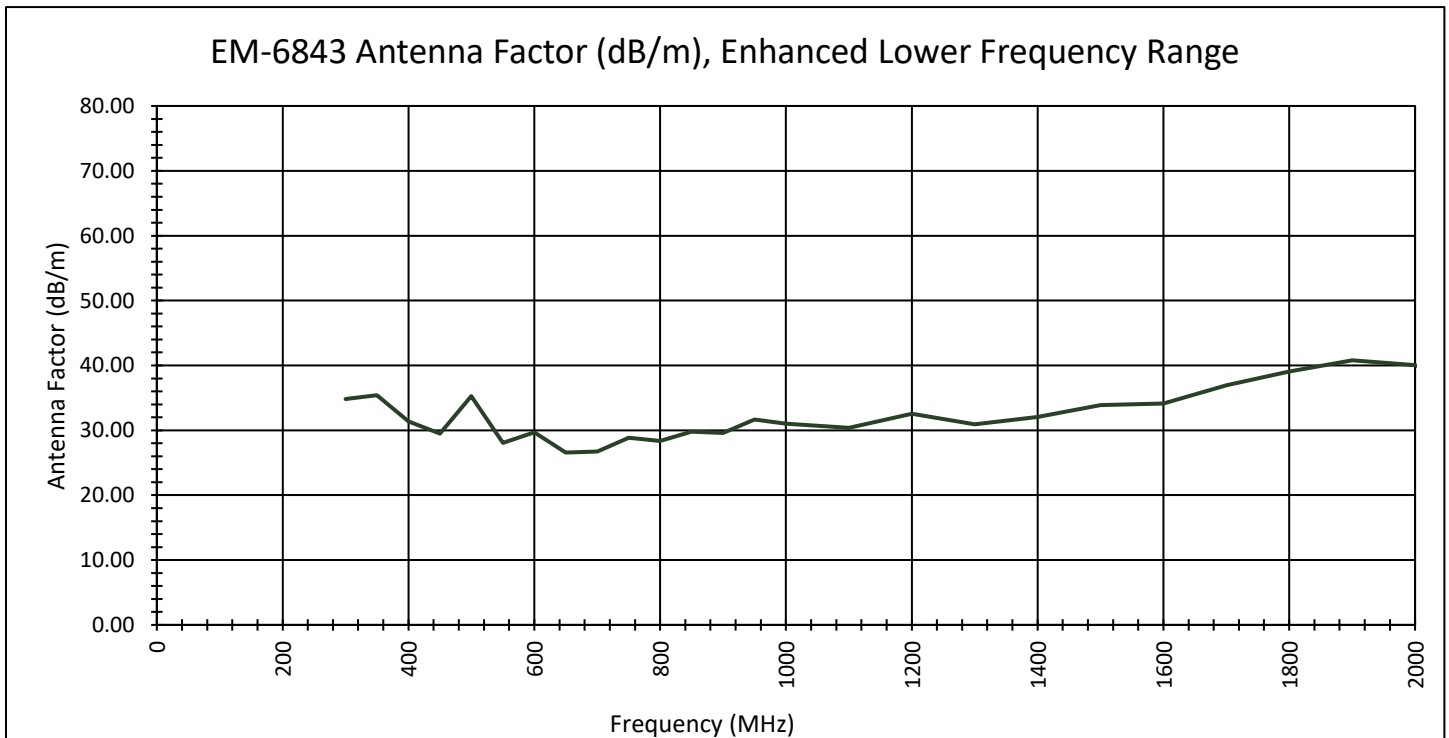
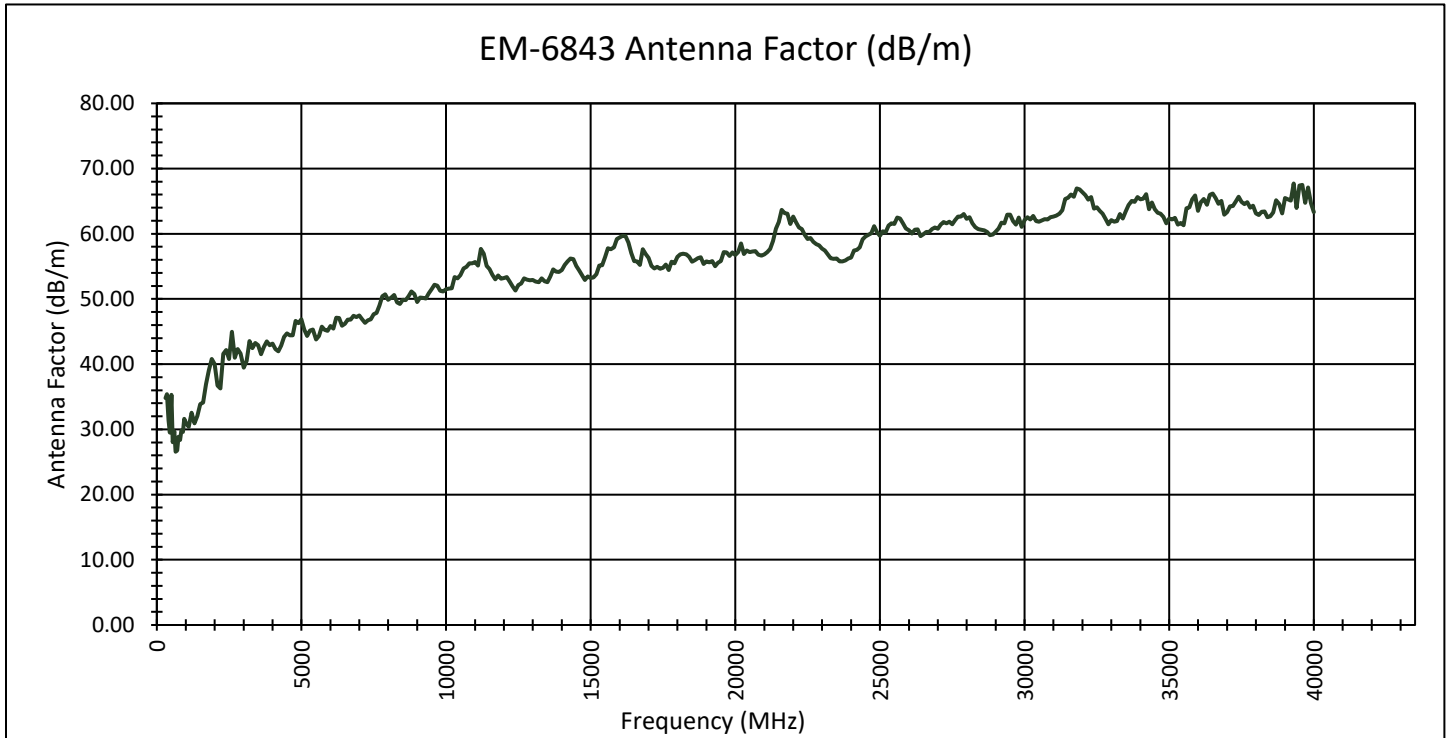


Data shown is typical, not guaranteed. Gain presented

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**EM-6843 | Antenna, Rugged, Ultra-Wideband, Passive, Omni-Directional**



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