

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



Description

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

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:	150 MHz - 40 GHz Nominal > 0 dBi @ 100 MHz Nominal -16 dBi @ 20 MHz Nominal - 44 dBi
Connector:	Type 'K' (EM-6841 20 MHz - 43.5 GHz) SMA (EM-6841-2 20 MHz - 26 GHz) Type 'N' (EM-6841-1 20 MHz - 18 GHz)

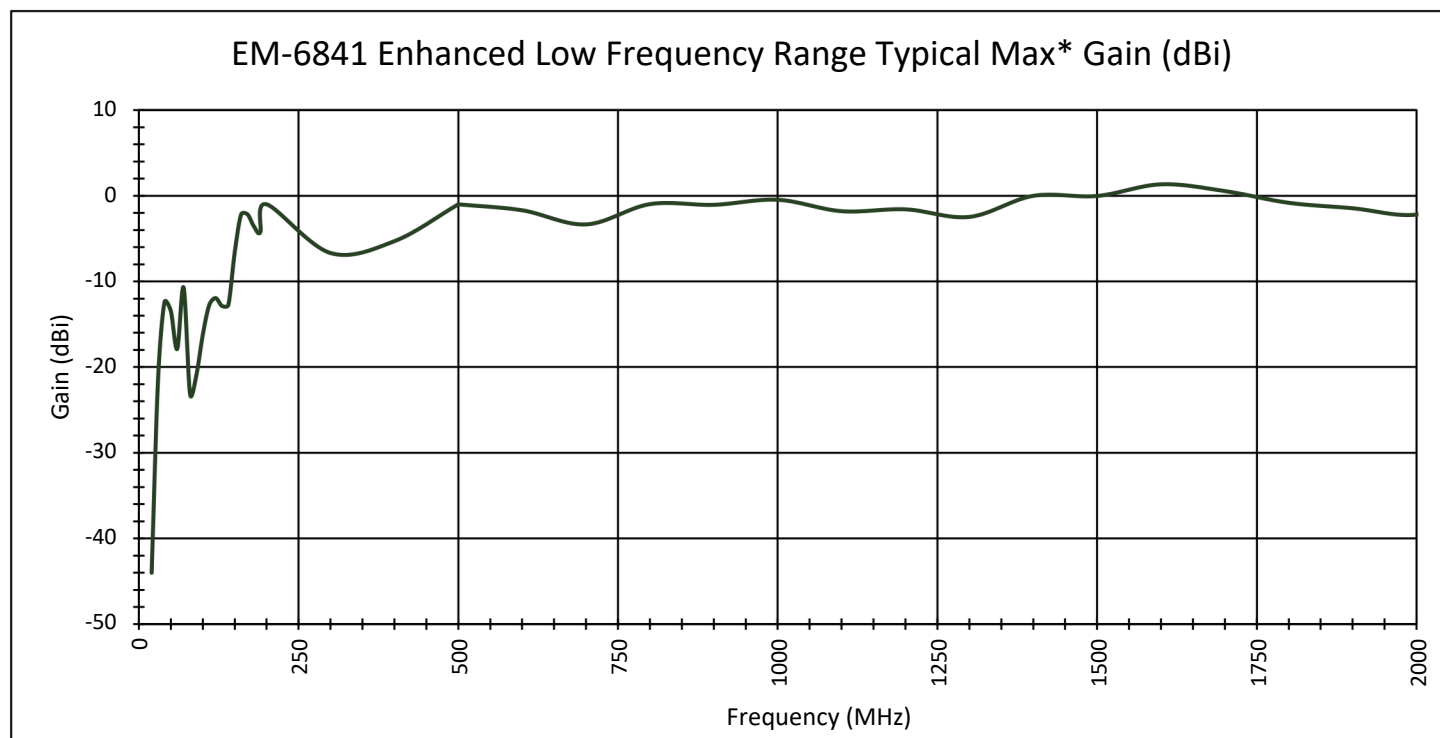
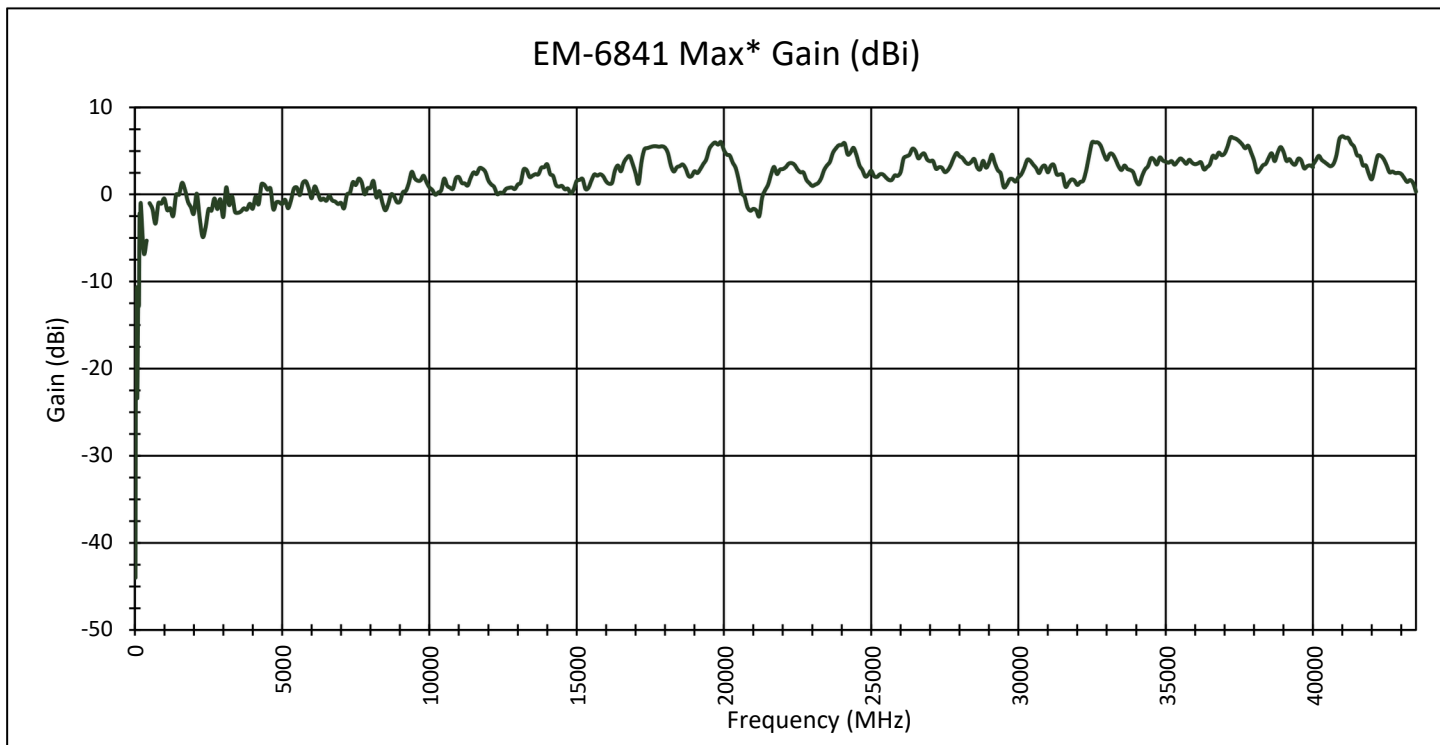
Mechanical

Overall Length:	36.8 cm (14.5")
Diameter:	11.5 cm (4.5")
Weight:	1.37 kg (3.02lbs.)
Mounting Options	(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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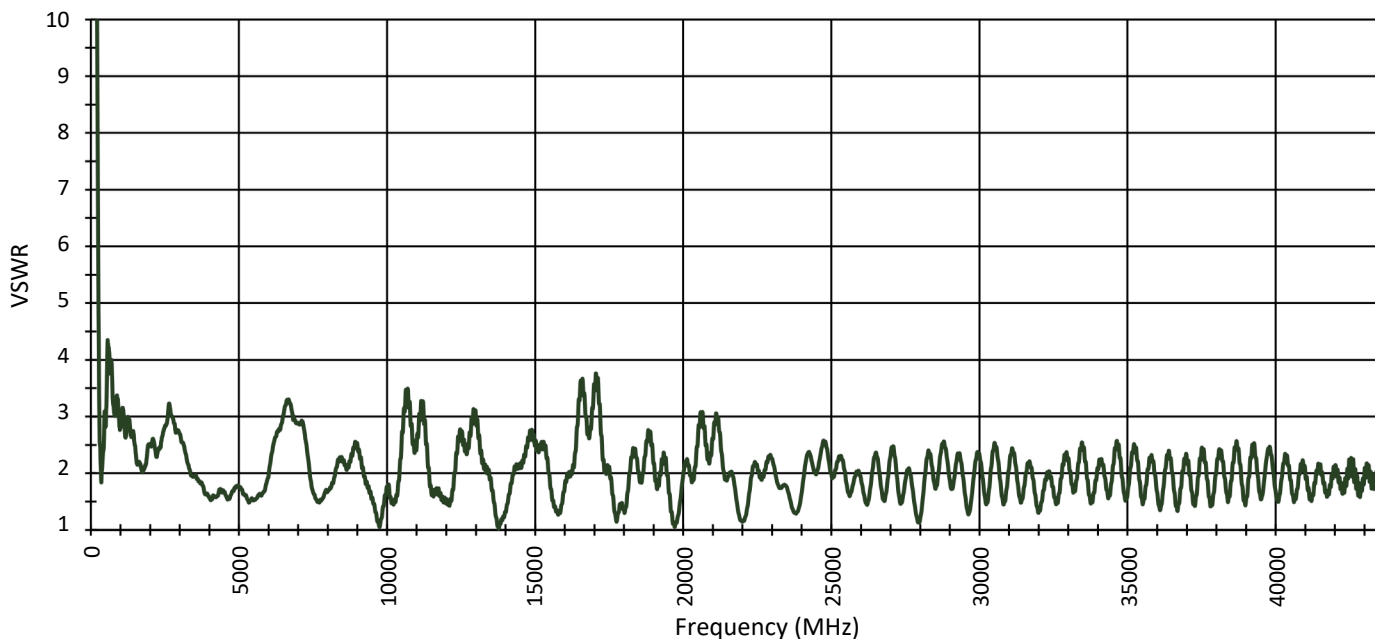
*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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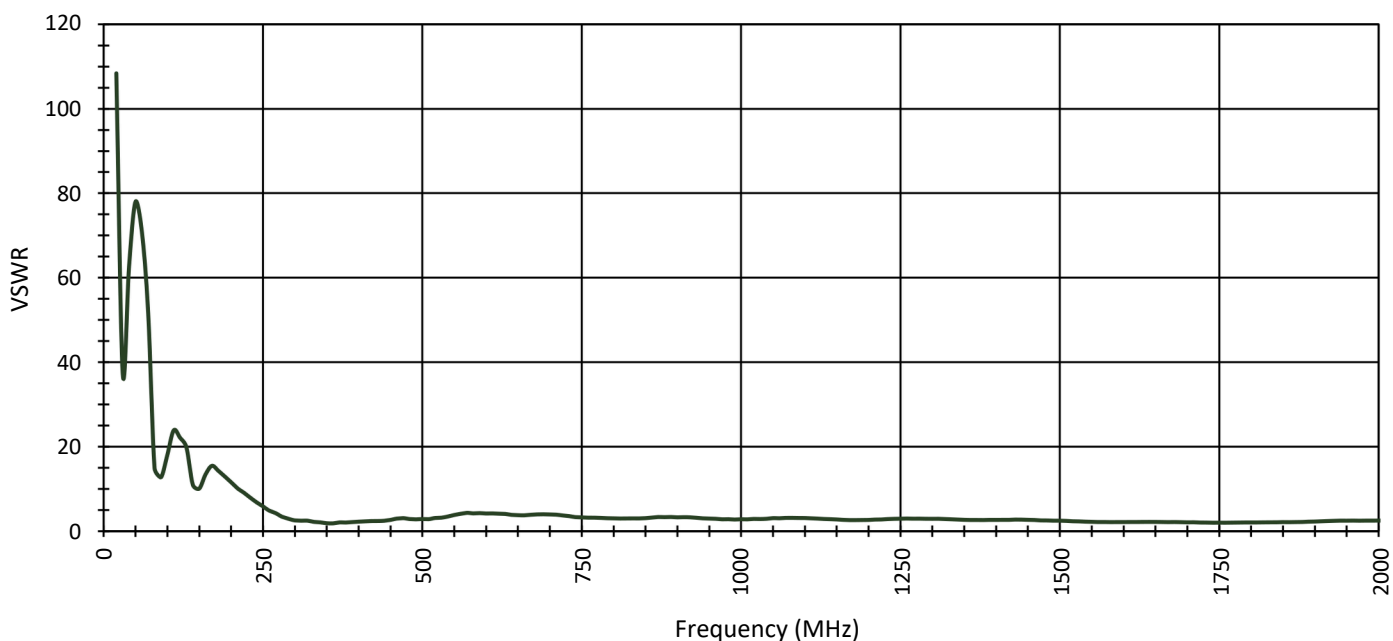


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EM-6841 Typical VSWR



EM-6841 Enhanced Low Frequency Range Typical VSWR



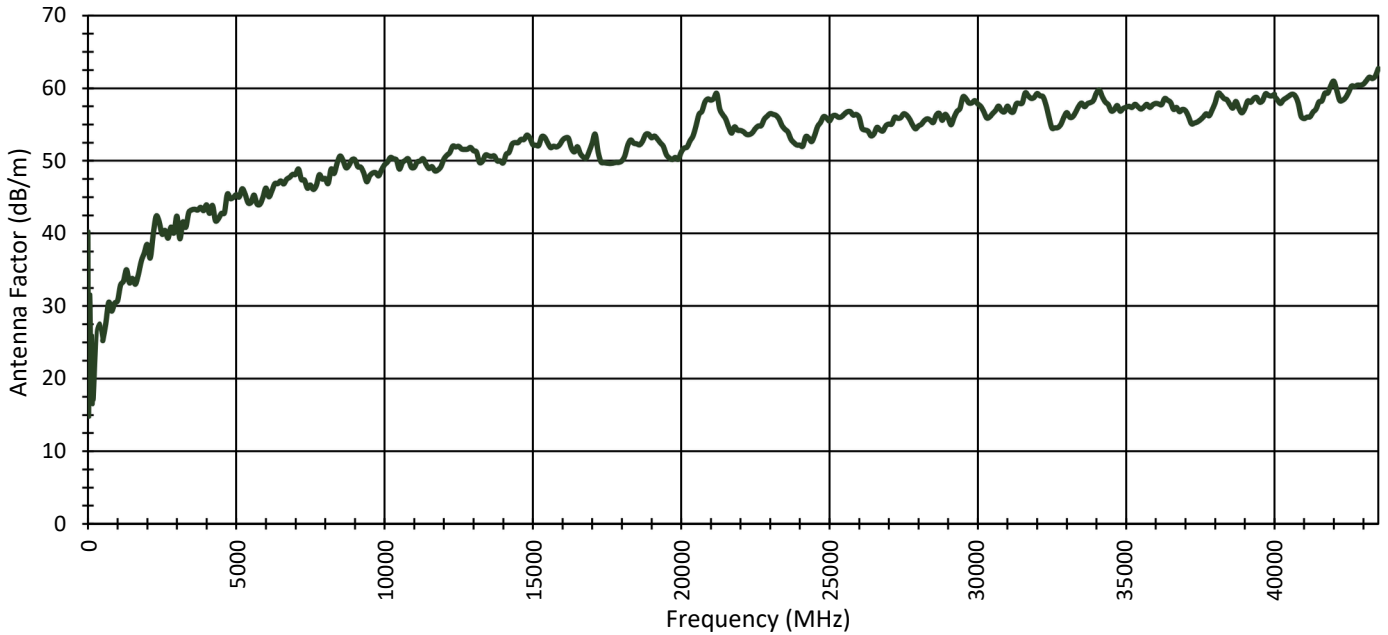
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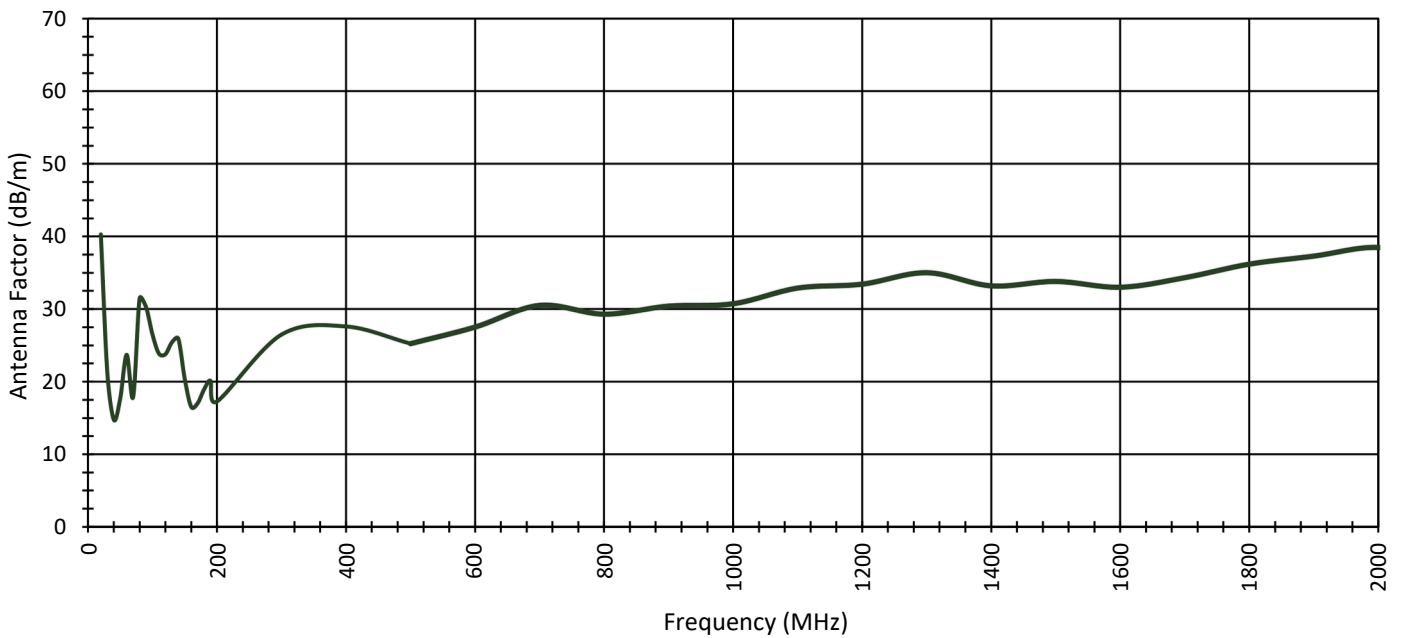


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EM-6841 Typical Antenna Factor (dB/m)



EM-6841 Enhanced Lower Range Typical Antenna Factor (dB/m)



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