EM ANTENNAS

DATASHEET

SBA U.S. Small Business Administration HUBZONE CERTIFIED

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



Description

The EM-6856, the successor to the EM-6857, is an Ultra-Wideband Omni-directional antenna that maintains a nominal >2dBi gain across the entire frequency range of 20MHz-43.5GHz. The EM-6856 features a 36% reduction in weight and a 38% reduction in size relative to its predecessor, while maintaining a rugged build and environmentally stable performance.

Use Cases

Spectrum Monitoring, Threat Detection, Array Elements, Manpack Configurations, Signals Intelligence and Electronic Warfare Systems

Specifications

Electrical

Frequency Range:	20 MHz – 43.5 GHz
Polarization:	Linear, Vertical
VSWR:	< 2:1 typical above 500 MHz
Radiation Pattern:	Omni-directional
Impedance:	50Ω, Nominal
Average Gain:	150MHz-40GHz Nominal 2dBi @100MHz Nominal -12dBi @20MHz Nominal -44dBi
Estimated Max Input Power:	EM-6856 | 5W CW above 500 MHz EM-6856-2 | 15W CW above 500 MHz EM-6856-1 | 30W CW above 500 MHz
Connector:	Type 'K' (EM-6856 | 20MHz-43.5GHz) SMA (EM-6856-2 | 20MHz-26GHz) Type 'N' (EM-6856-1 | 20MHz-18GHz)

Mechanical

Height (Antenna Only):	11 in. (28 cm)
Diameter (Antenna Only):	4.5 in. (11.5 cm)
Weight (Antenna Only):	1.9 lbs. (862 g)
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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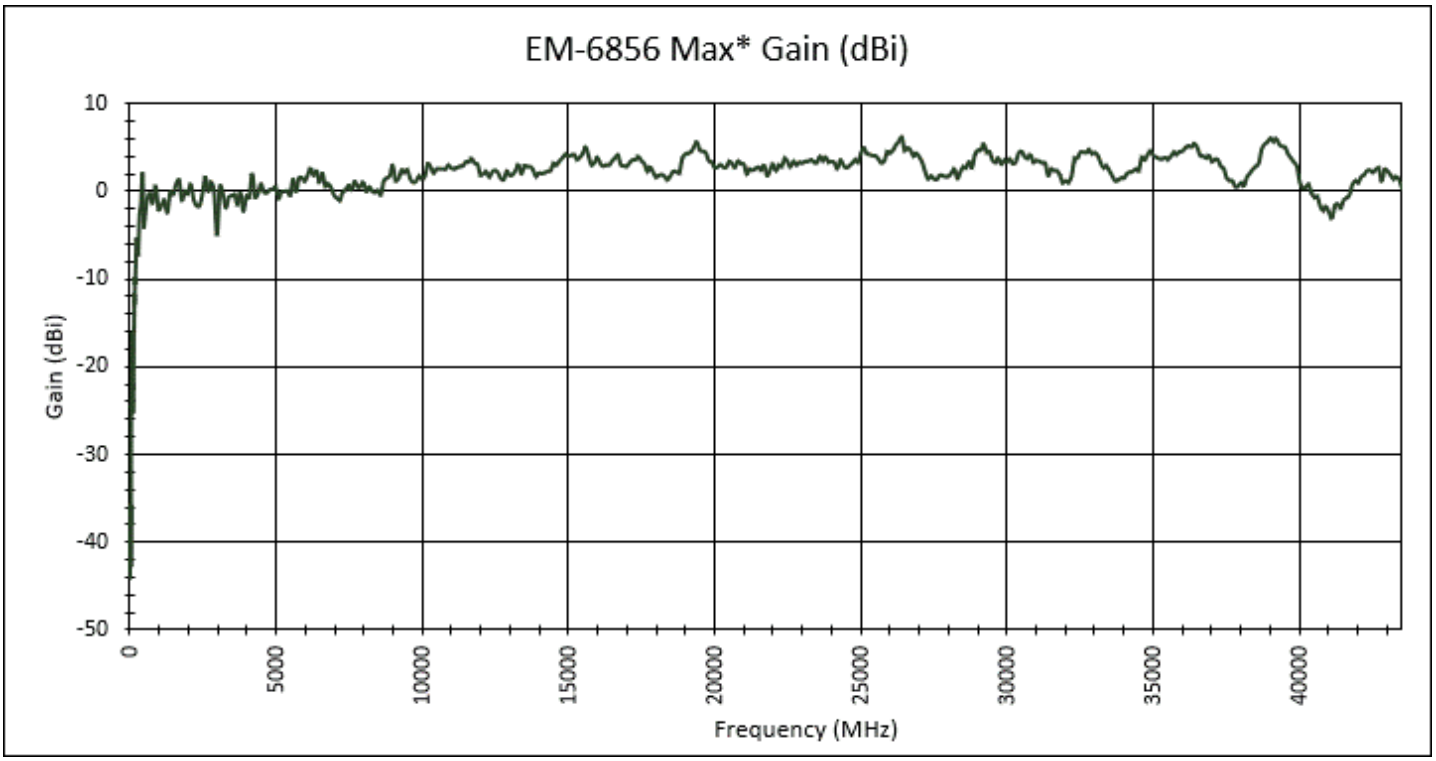
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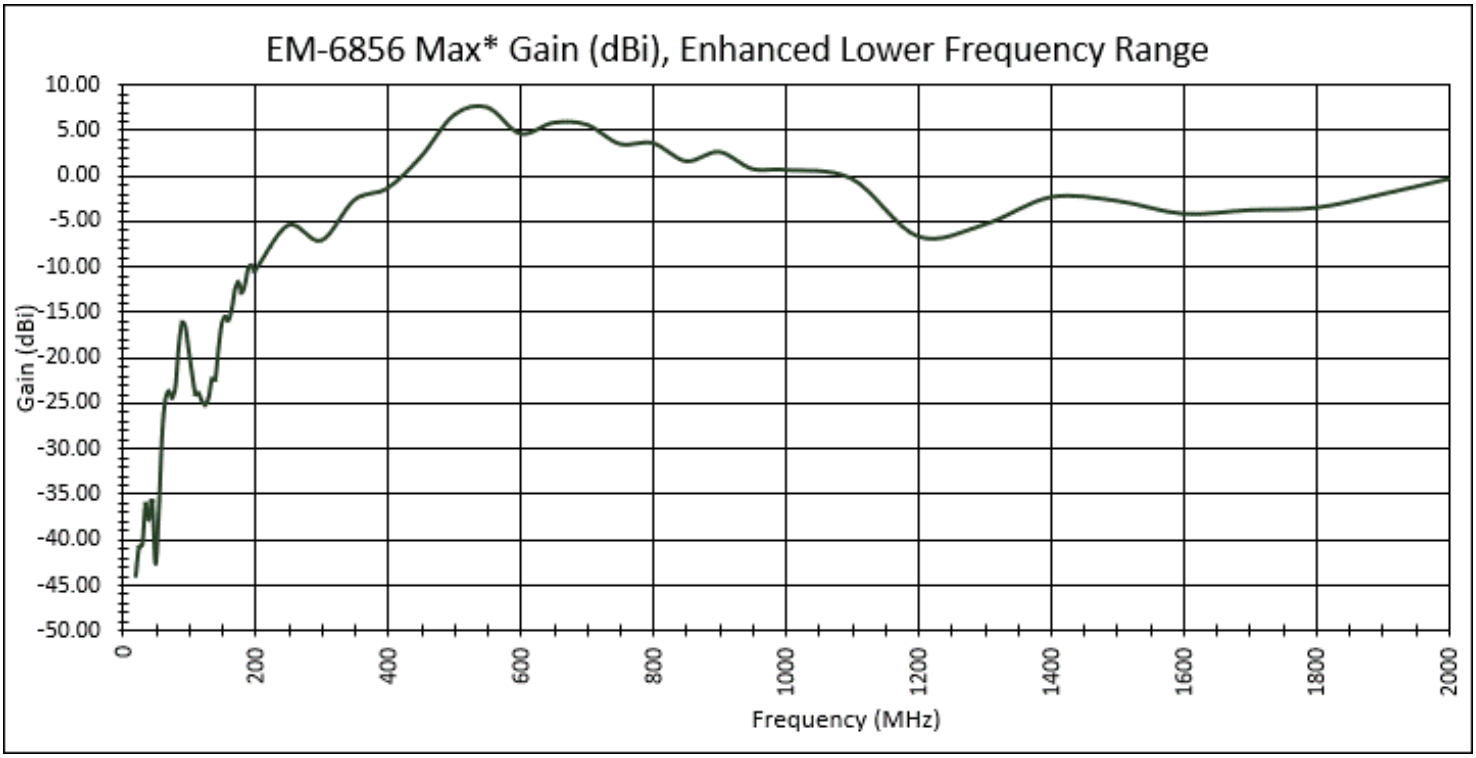
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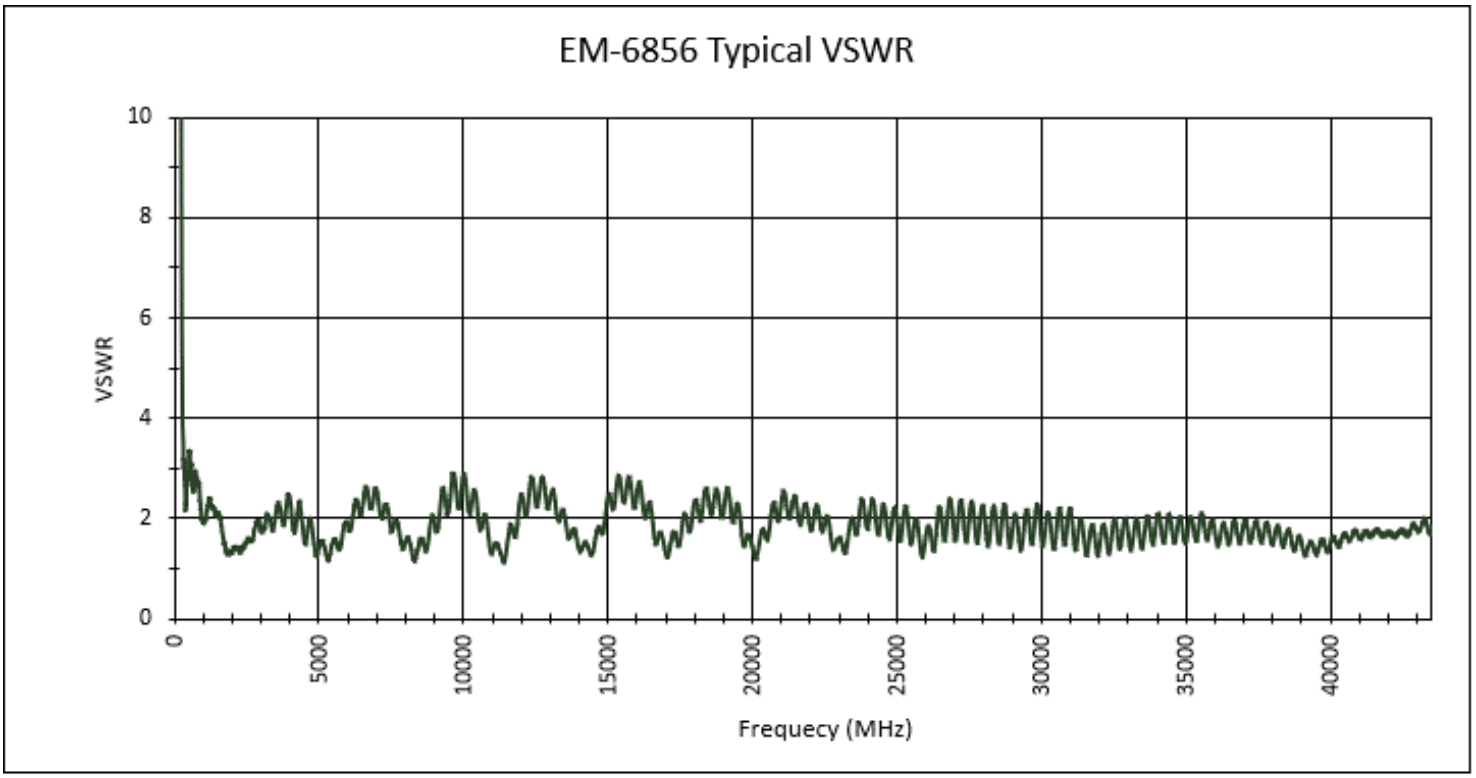
Max* Gain values determined from scans at all Azimuth. Data shown is typical, not guaranteed.

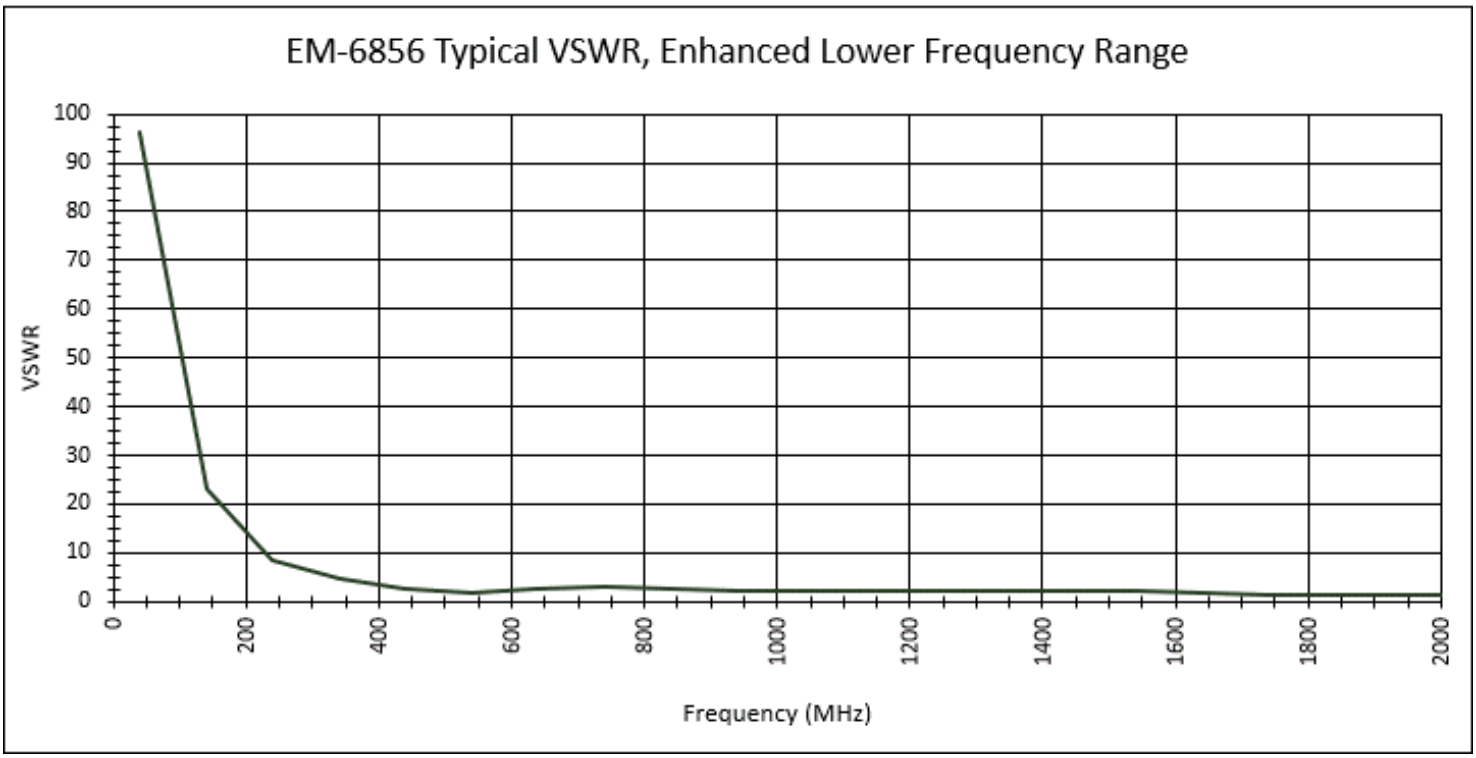
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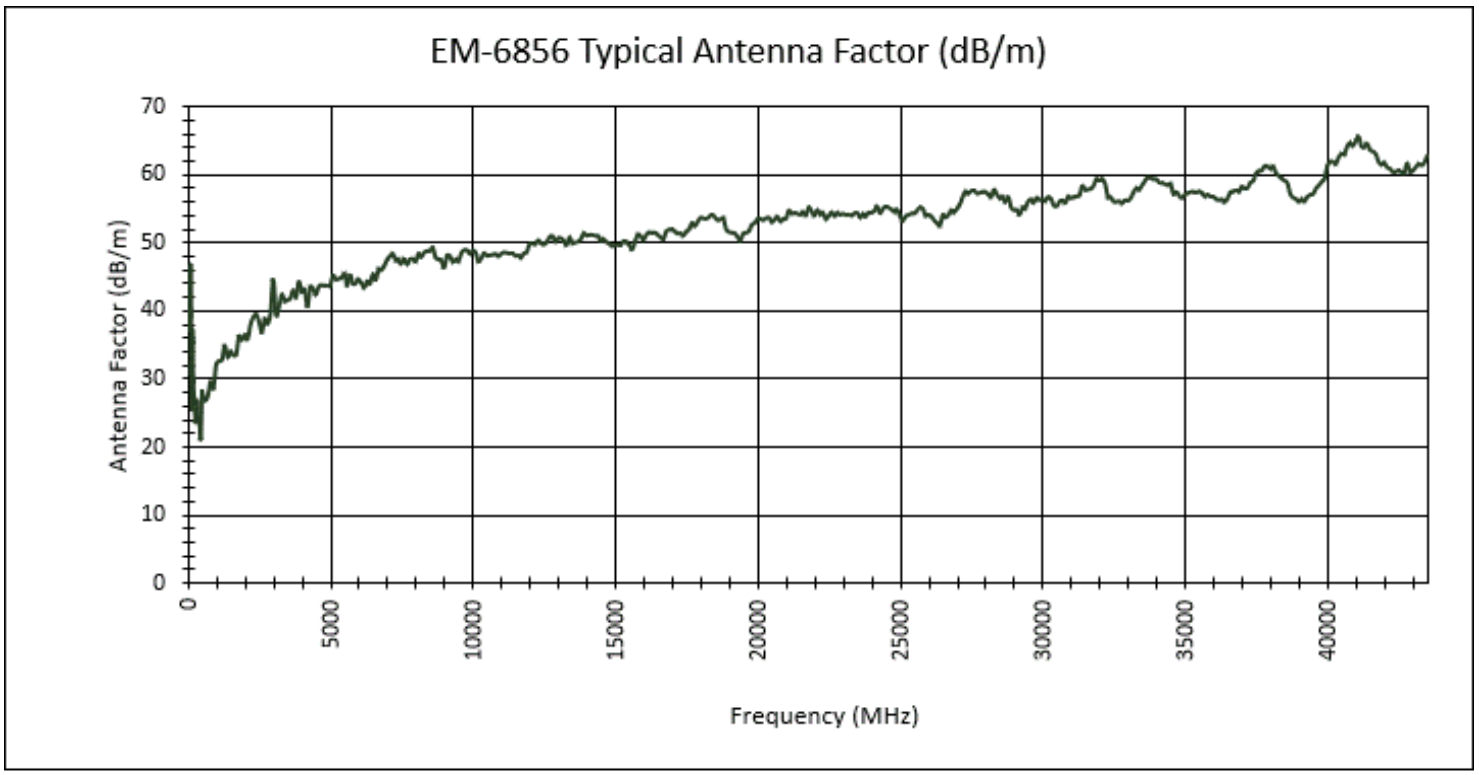


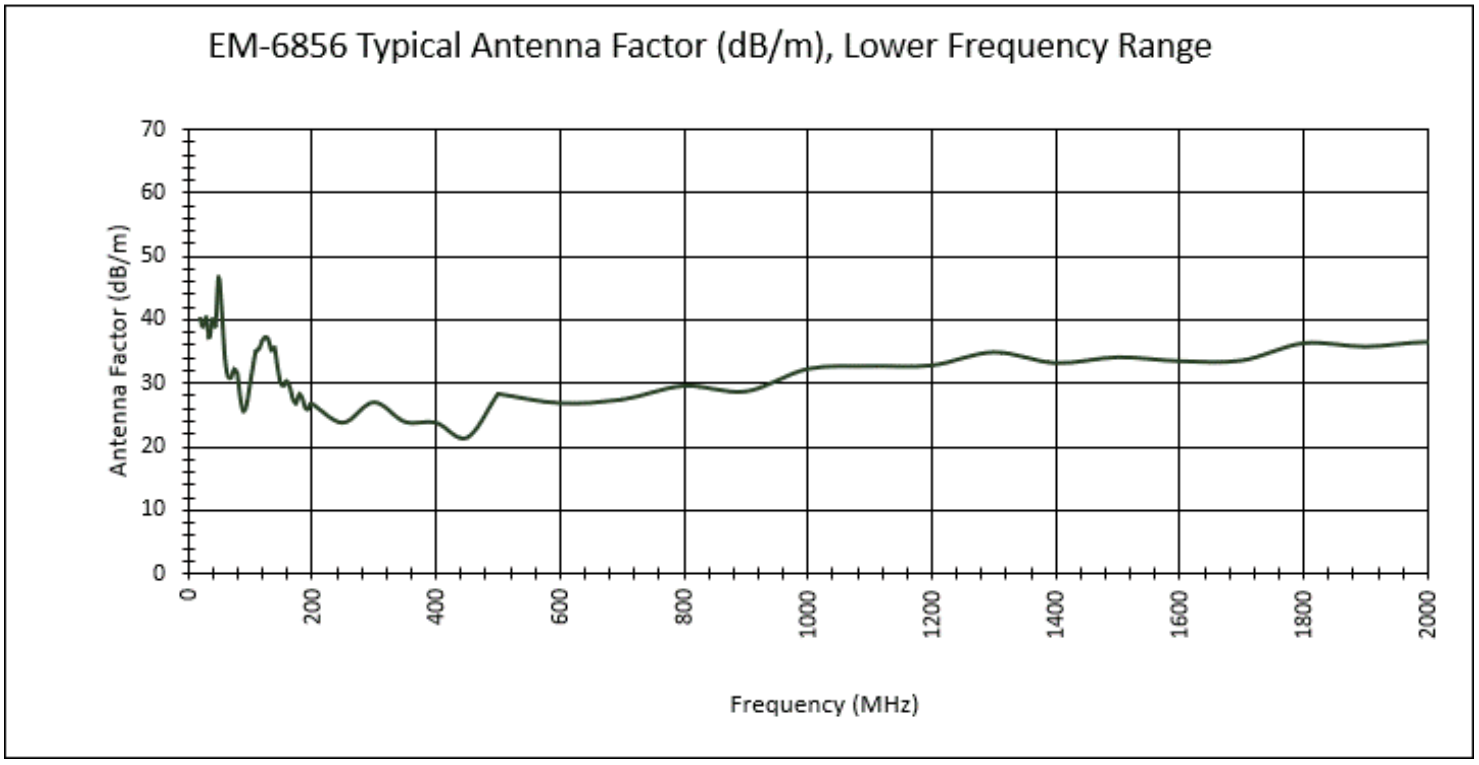
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EM-6725 | Antenna, Ultra-Wideband, Omni-Directional, Passive





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