EM ANTENNAS

DATASHEET

SBA U.S. Small Business Administration HUBZONE CERTIFIED

EM-6842 | Antenna, Rugged, Ultra-Wideband, Passive, Omni-Directional



Description

The Model EM-6842 Omni-directional Ultra-wideband Antenna is a vertically polarized, broadband antenna that operates from 100 MHz to 70 GHz. It features a consistent gain of approximately 0 dBi across more than 95% of its frequency range and functions as both a transmitting and receiving antenna, making it ideal for testing, measurements, and signal detection/SIGINT.

Use Cases

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

Specifications

Electrical

Frequency Range:	100 MHz – 70 GHz
Polarization:	Linear, Vertical
VSWR:	<3:1 Average above 500 MHz
Radiation Pattern:	Omni-directional
Impedance:	50Ω, Nominal
Average Gain:	100 MHz - 70 GHz Nominal > 0 dBi @ 100 MHz Nominal -17 dBi @ 10 MHz Nominal - 40 dBi
Estimated Max Input Power:	EM-6842 | 25W CW above 500 MHz EM-6842-1 | 25W CW above 500 MHz
Connector:	1.85mm (EM-6842 | 20MHz-70GHz) Type 'N' (EM-6842-1 | 20MHz-18GHz)

Mechanical

Height (Antenna Only):	25 in. (63.5 cm)
Diameter (Antenna Only):	2.875 in. (7.3 cm)
Weight (Antenna Only):	2.3 lbs. (1.0 kg)
Mounting Options Available:	XF-N196-1 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.

MADE IN USA

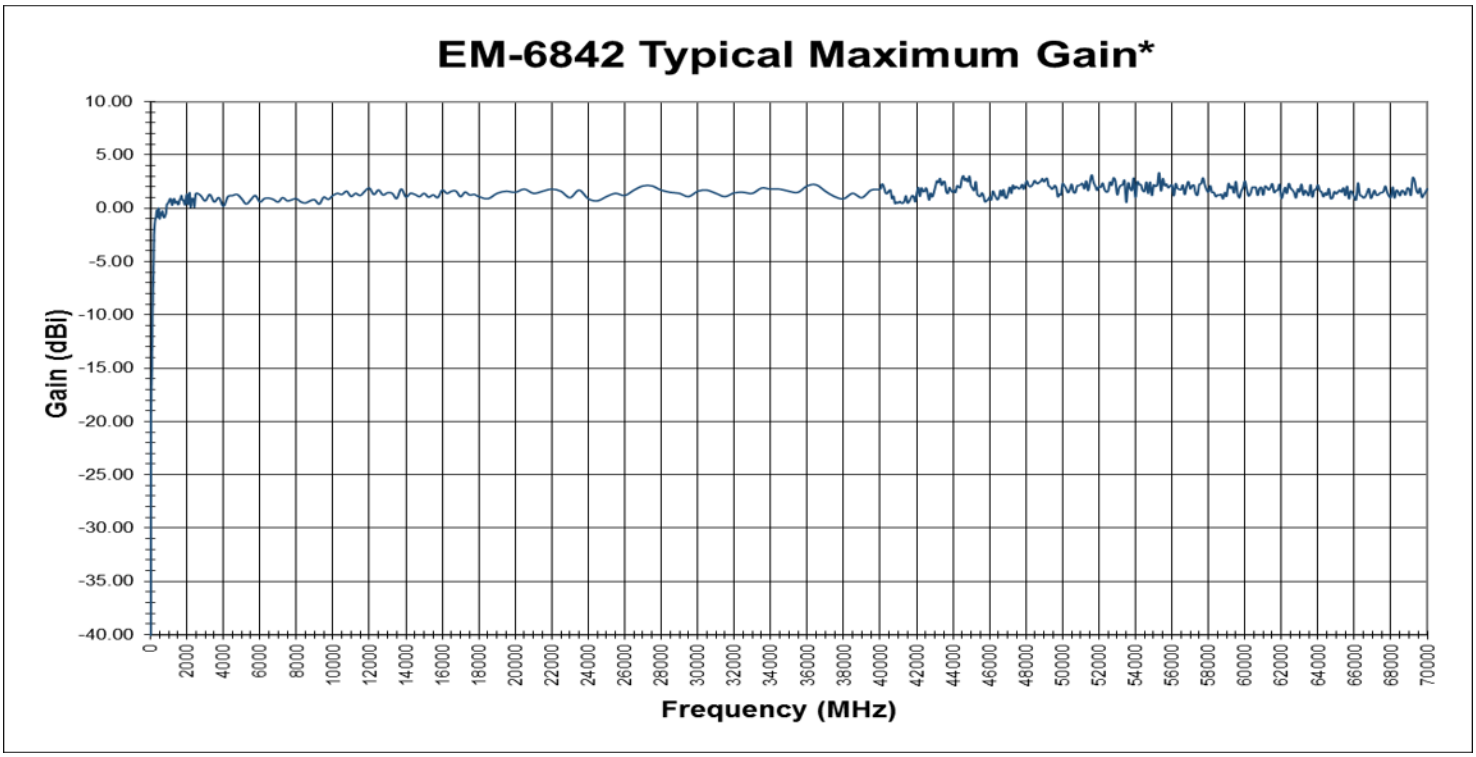
231 Enterprise Rd., Johnstown NY 12095 518.762.2600 www.em-antennas.com

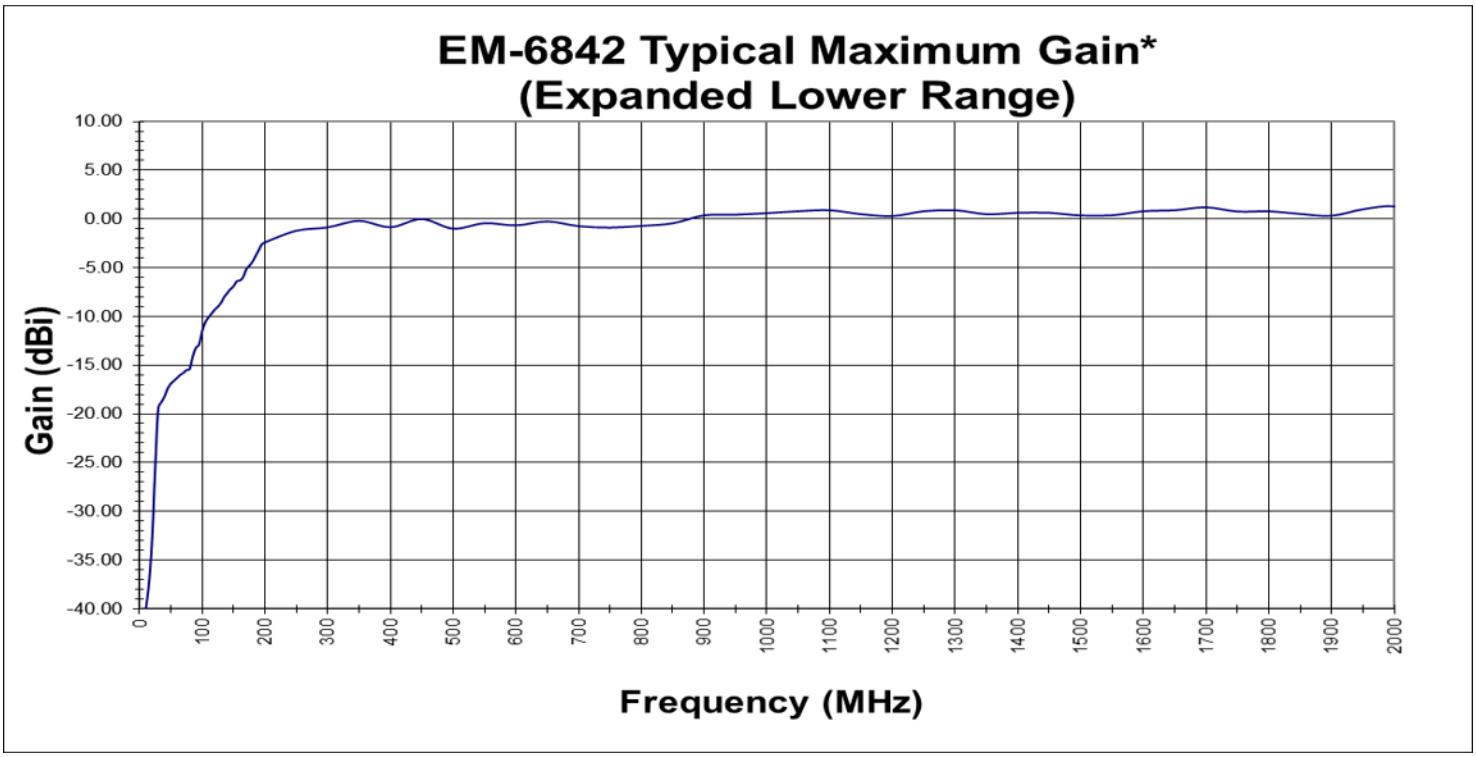
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Max* Gain values determined from scans at all Azimuth. Data shown is typical, not guaranteed.

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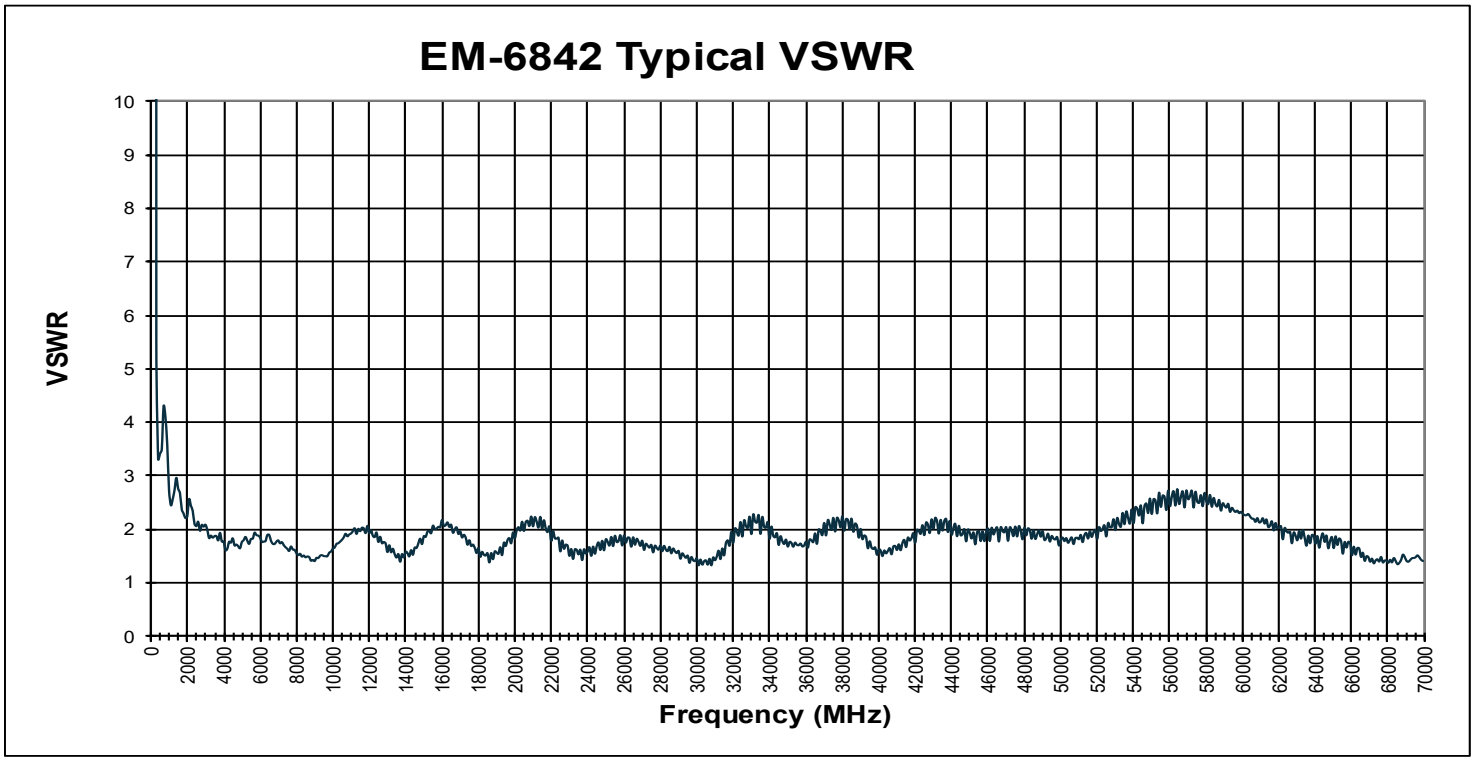
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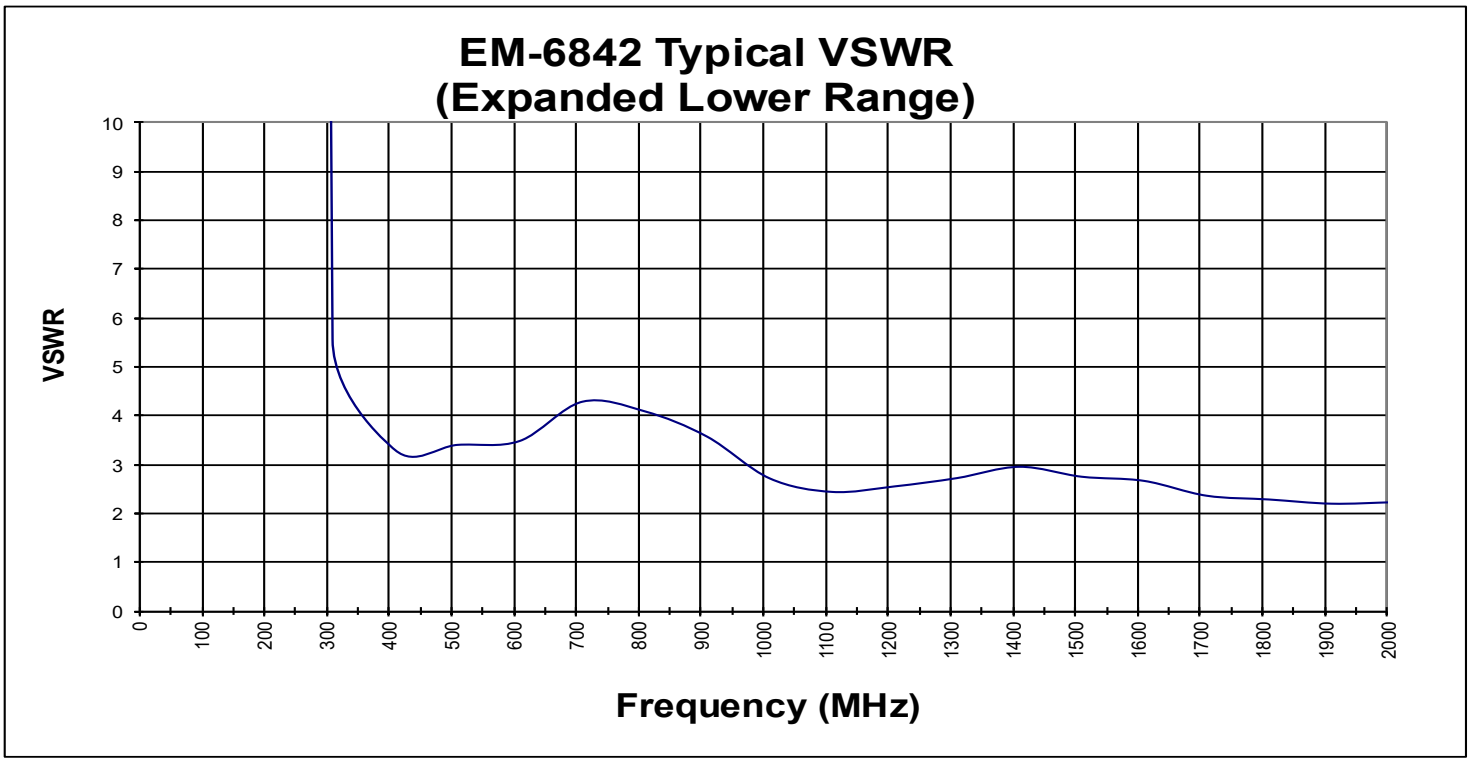
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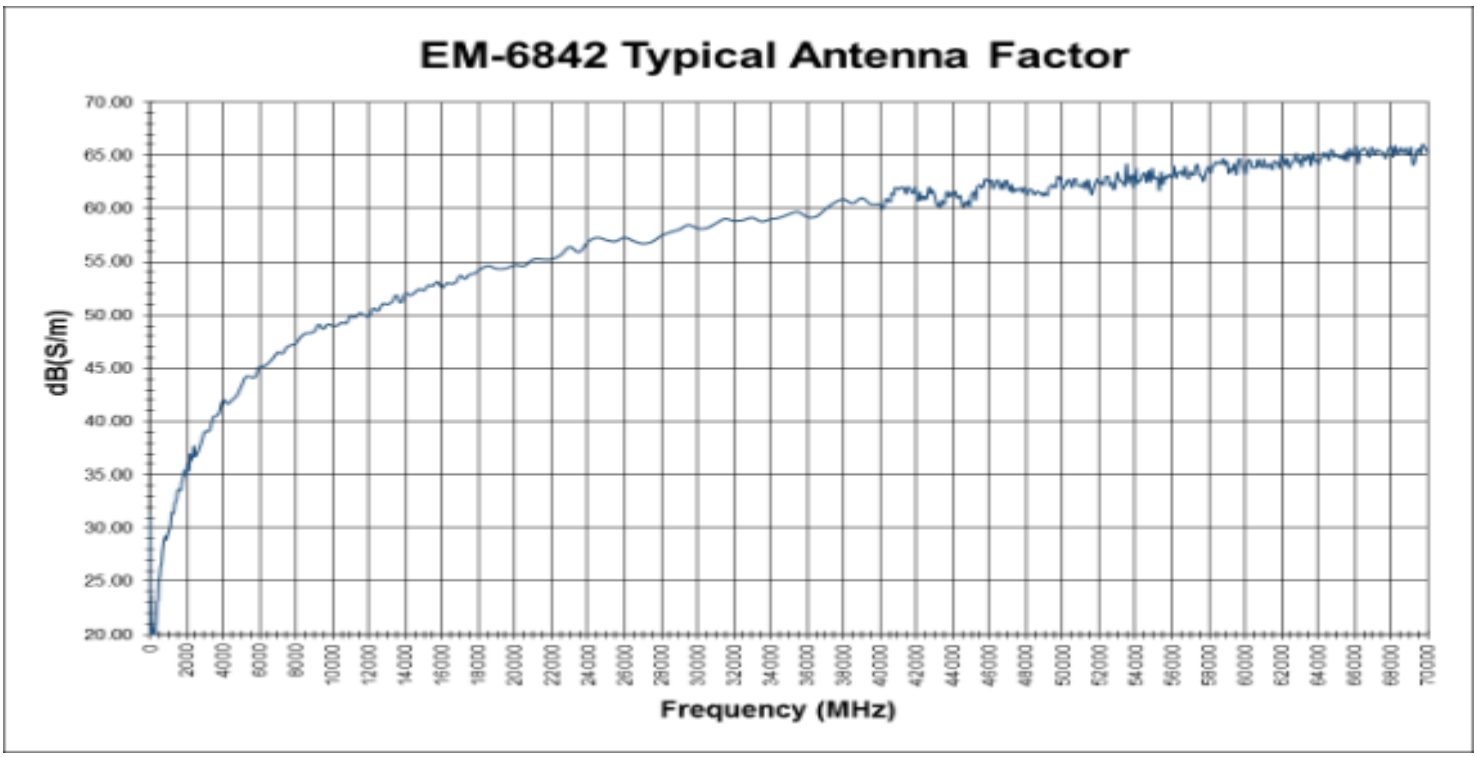
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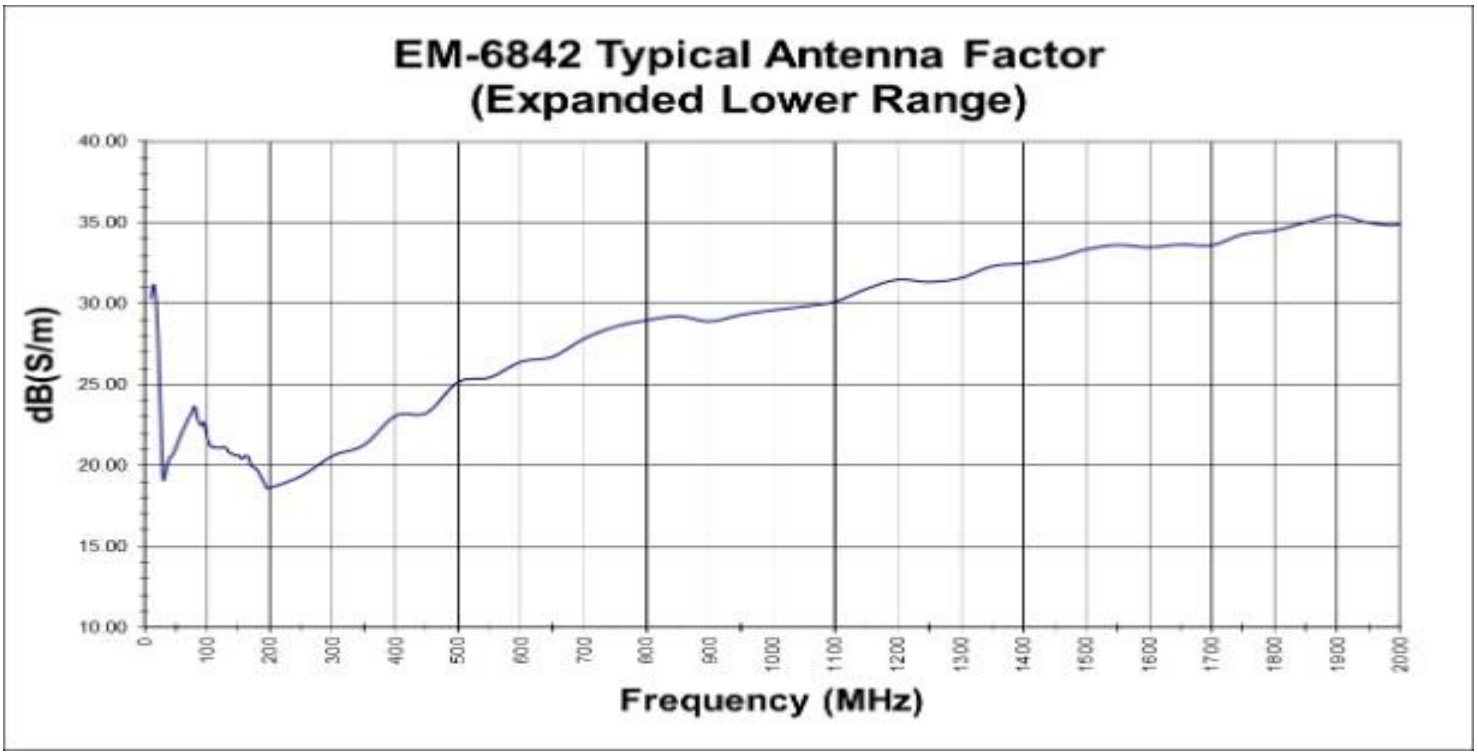
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