

EM-6005 | Antenna Kit, 1kHz – 43.5GHz



Description

The EM-6005 Antenna Kit provides all the antennas and accessories needed to cover the entire frequency spectrum from 1kHz to 43.5GHz while remaining compact and lightweight compared to other similar antenna kits. The kit features the EM-6856 (20MHz-43.5GHz) omni-directional antenna, the EM-6904-1(1kHz-200MHz) omni-directional antenna, and the EM-6945 (250MHz-25GHz) Hand-Held directional Log Periodic antenna.

Specifications

Electrical

Kit Frequency Range: 1kHz – 43.5GHz

Impedance: 50Ω, Nominal

Kit Contents

EM-6856 Omni-Directional Antenna

EM-6945 Hand-Held Log Periodic Antenna

EM-6904-1 Whip Antenna

EM-6133 Tripod

EM-1317 (10ft) 2.92mm Coax Cable (QTY 2)

EM-7524 2.92mm(f) to Type N(m) Adapter

EM-7451 BNC(f) to BNC(m) RT Angle Adapter

Mechanical

Dimensions:

W x L x H: 24" x 19.5" x 14"

Weight: 30.9 lbs.

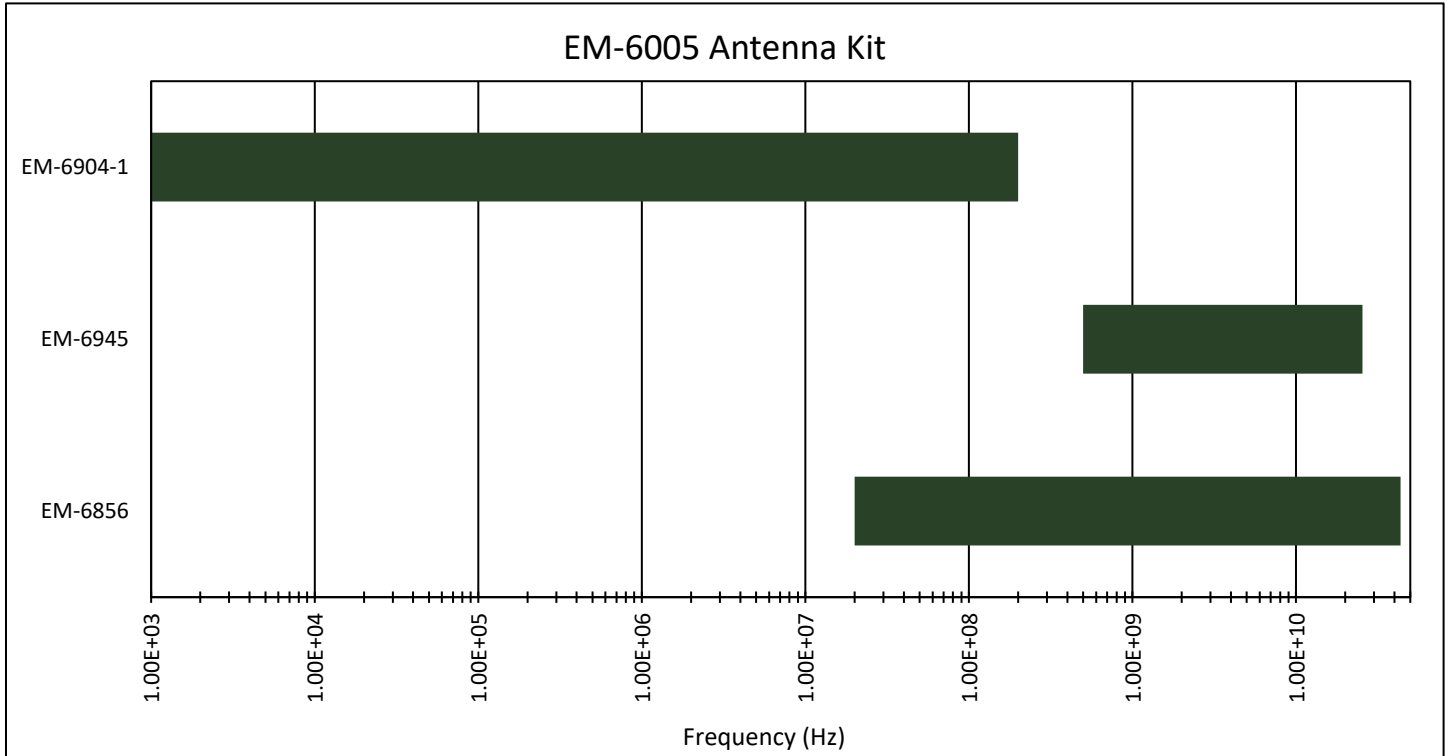
Color Options:

- 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-6005 | Antenna Kit, 1kHz – 43.5GHz



EM-6856



EM-6945



EM-6104-1

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



Description

The Electro-Metrics EM-6856 is an Ultra-Wideband Passive Antenna with Omni-Directional radiation patterns covering the entire frequency range of 20MHz-40GHz.

As the successor to the EM-6857, the EM-6856 features a size reduction of 38% and weight reduction of 36% over its predecessor while maintaining a nominal gain of > 2dBi across 90% of its operational frequency range. Environmentally hardened with a rugged build and stable performance, this antenna is excellent for SIGINT and related applications.



Specifications

Electrical

Frequency Range: 20 MHz – 43.5 GHz

Polarization: Linear, Vertical

VSWR: Average 2:1 above 400 MHz

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

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

Impedance: 50Ω, Nominal

Gain: 150MHz-40GHz Nominal 2dBi

@100MHz Nominal -12dBi

@20MHz Nominal -44dBi

Connector: Type 'K' (**EM-6856** | 20MHz-40GHz)

SMA (**EM-6856-2** | 20MHz-26GHz)

Type 'N' (**EM-6856-1** | 20MHz-18GHz)

Mechanical

Dimensions:

Overall Length: 29 cm (11")

Diameter: 11.5 cm (4.5")

Weight: 0.86 kg (1.9 lbs.)

Mounting Options Available:

EM-1607 Tripod Mount (included)

EM-1608 Right Angle Wall Mount

EM-1108 Rugged Roof Rack Mount

EM-1109 Pole Mount

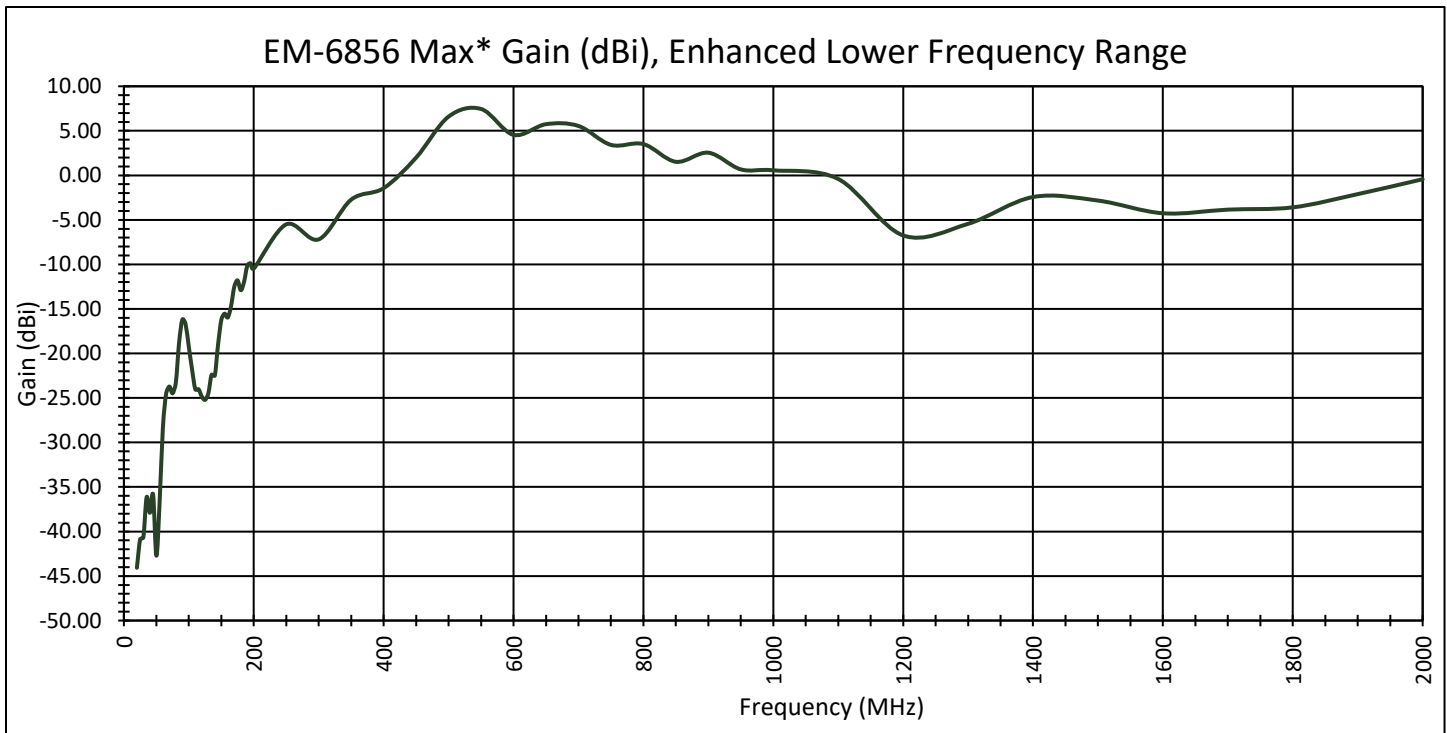
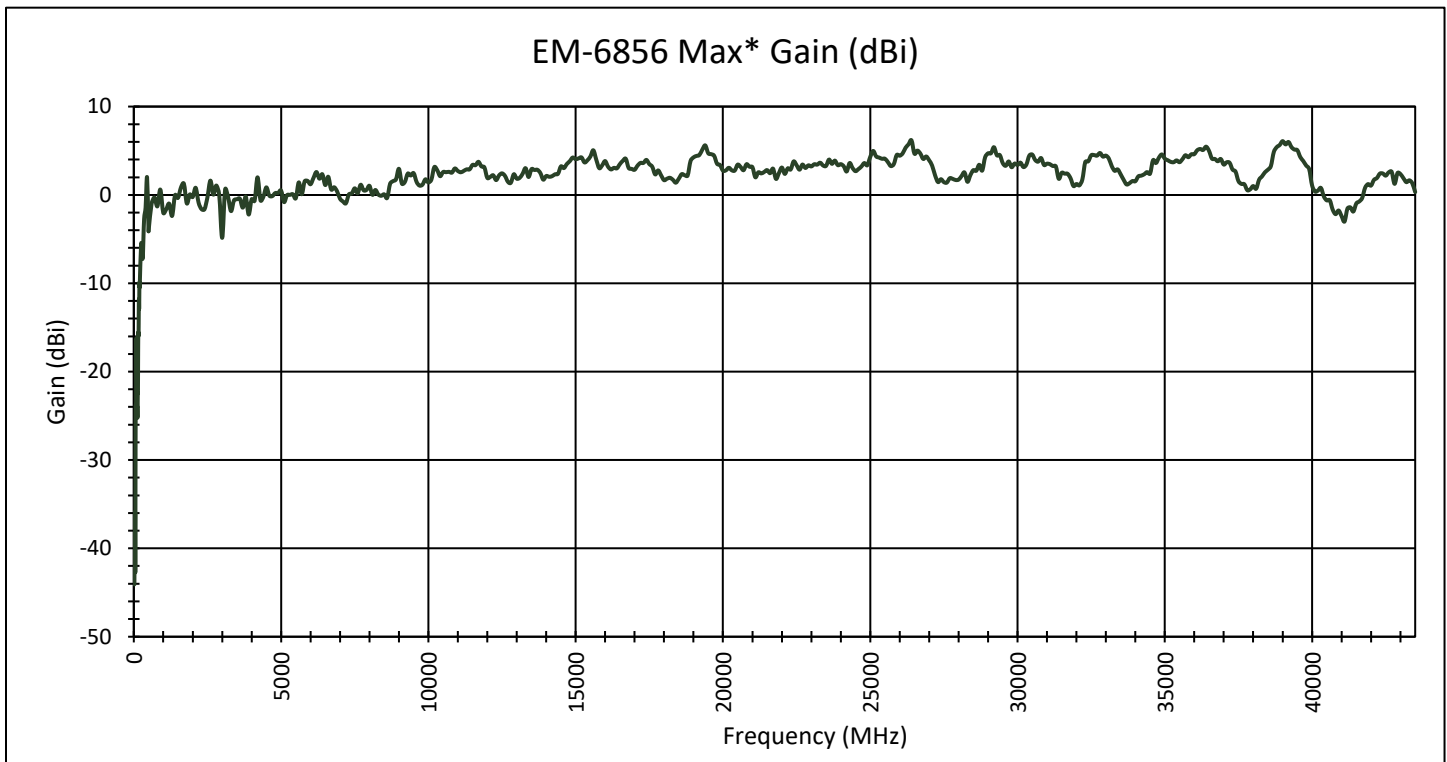
Color Options:

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

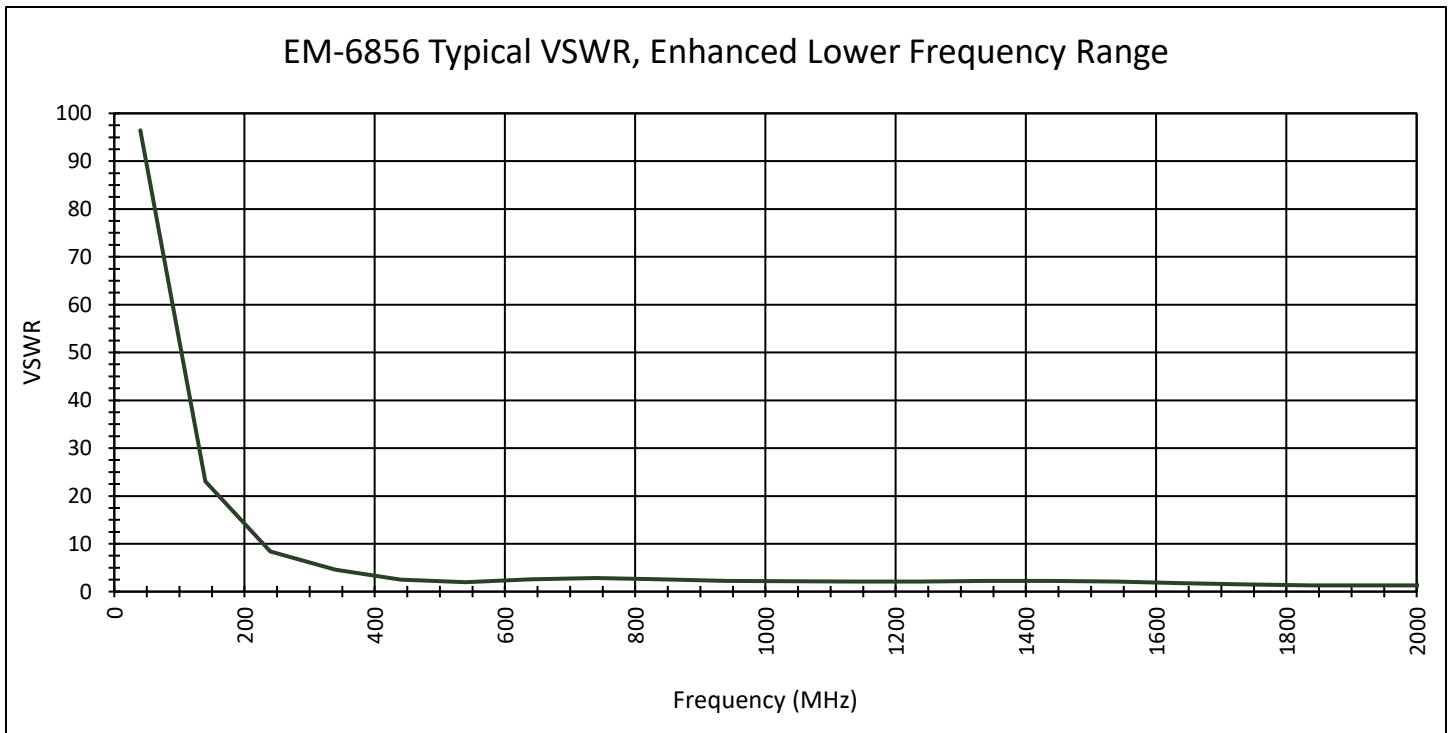
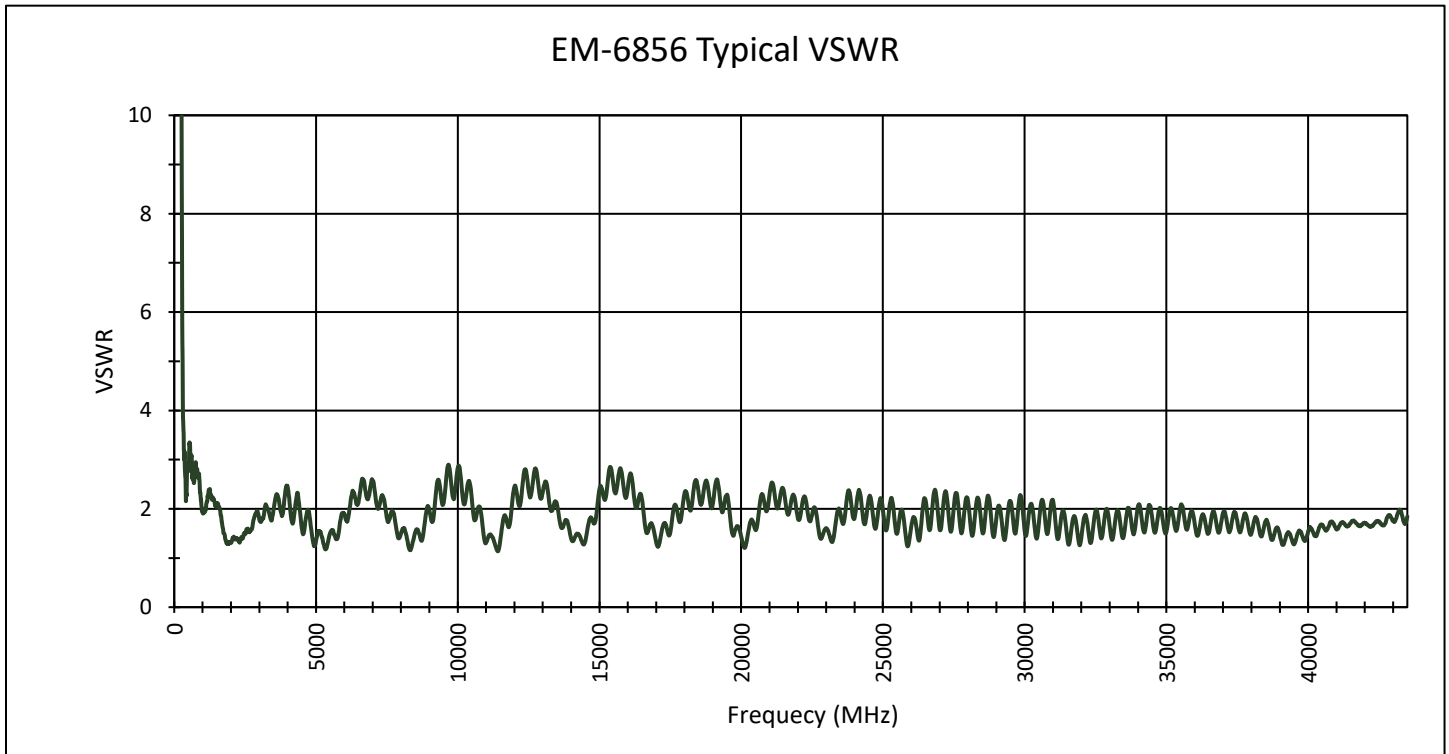


*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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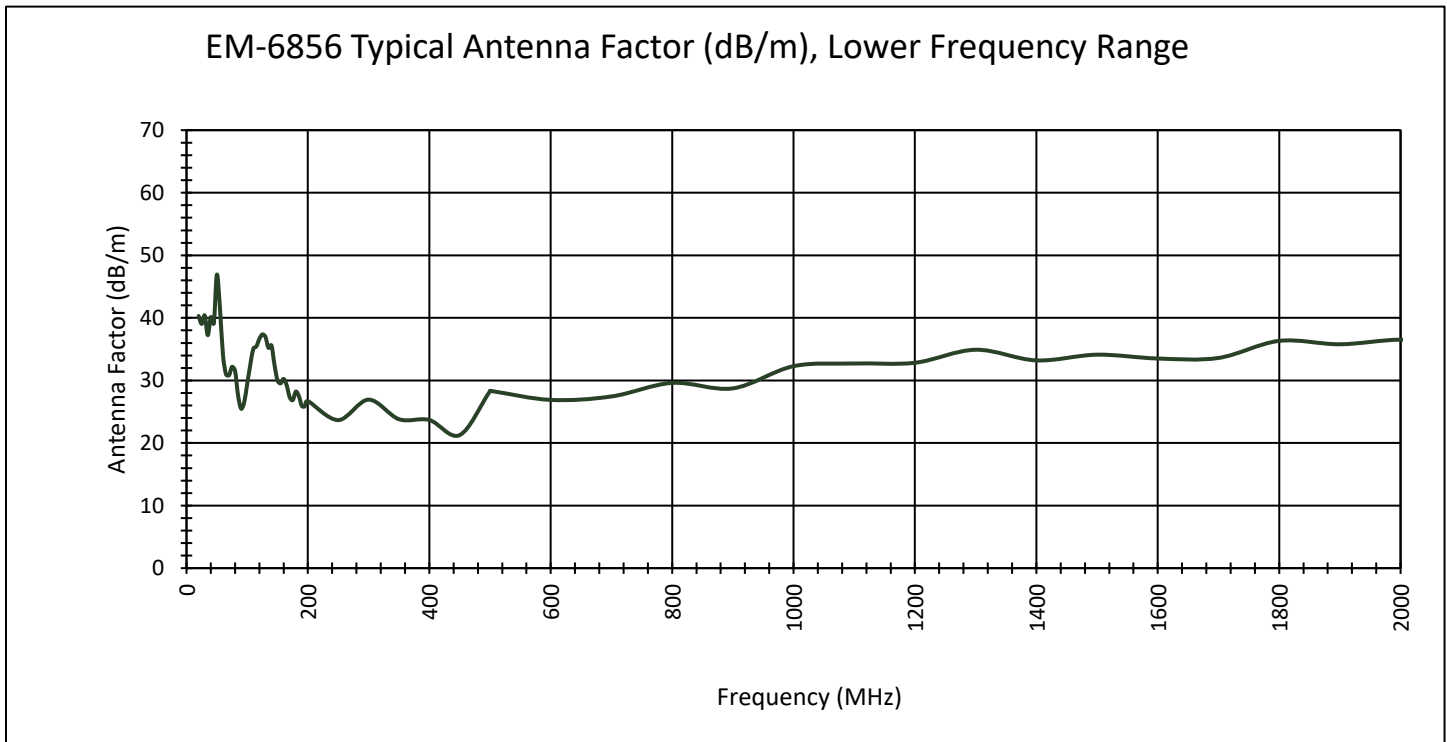
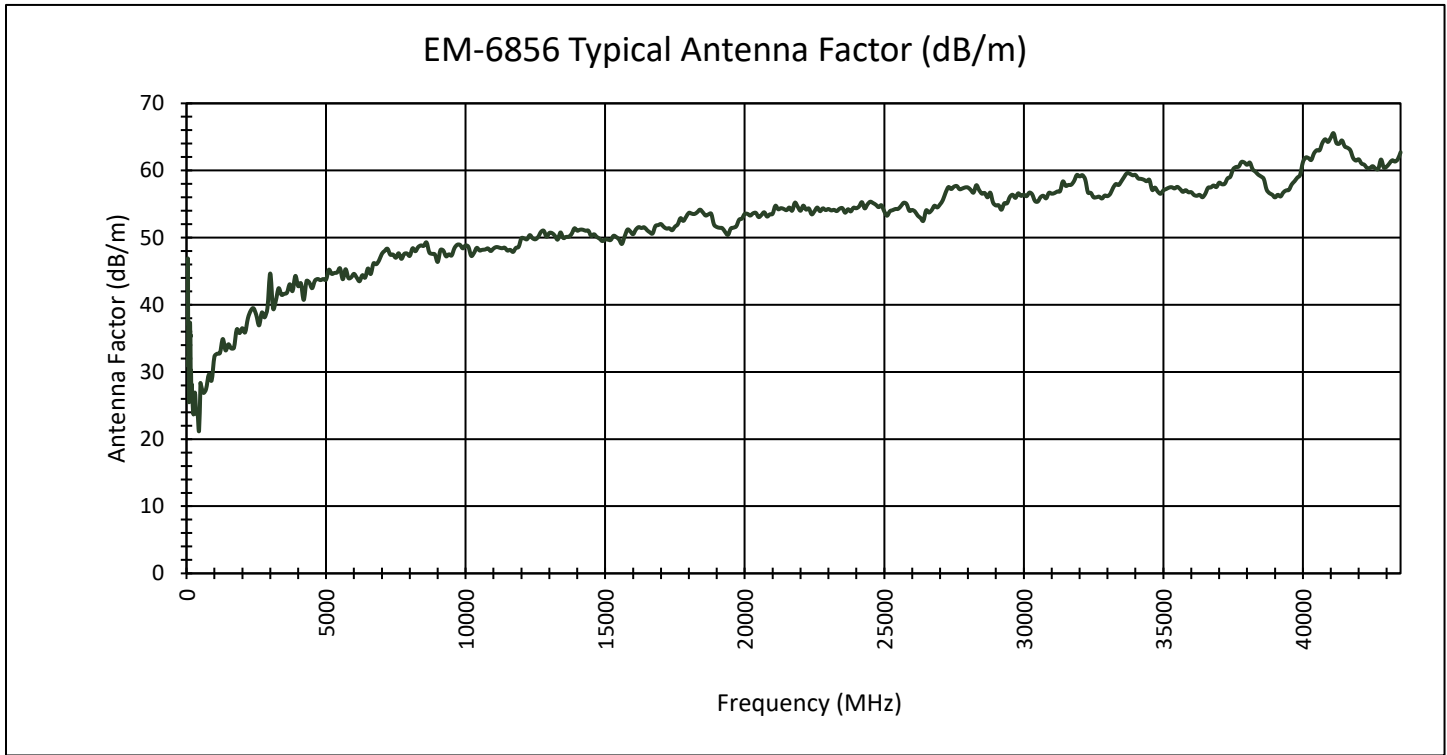


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EM-6856 | Antenna, Ultra-Wideband, Passive, Omni-Directional



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EM-6945 | Antenna, Hand-Held Directional



Description

The Electro-Metrics EM-6945 'Vector' is an Ultra-Wideband Log Periodic antenna that comes in a small, easily deployable handheld package. The EM-6945 has been optimized for peak efficiency across its entire frequency range while maintaining stable directional radiation patterns. It offers a consistent 5-8dBi of gain across the majority of its frequency range. The Vector is the ideal hand-held device for locating the origin of transmitting equipment. Perfect for SIGINT and multi-band communications applications or any other application where a small, rugged, high performance passive antenna is required.

A detented, pivoting handle with a built-in 1/4-20 tripod mount allows for immediate polarity changes without any additional setup required.

Specifications

Electrical

Frequency Range: 500 MHz – 25 GHz

VSWR: 1.7:1 Average

Impedance: 50Ω, Nominal

Gain: 600MHz-16GHz > 0dBi Nominal
16GHz-25GHz 0-6dBi Nominal

Connector: Type 'K' (500MHz-25GHz) (standard)
SMA (500MHz-25GHz)
Type 'N' (500MHz-18GHz)

Mechanical

Dimensions:

Overall Length: 39.4 cm (15.5")

Width: 21.6 cm (8.5")

Height (with Handle): 15.25 cm (6")

Weight: 0.68 kg (1.5 lbs.)

Mounting Options Available:

1/4 – 20 Tripod Mount Handle (included)

EM-6943 (EM-6945 without handle)

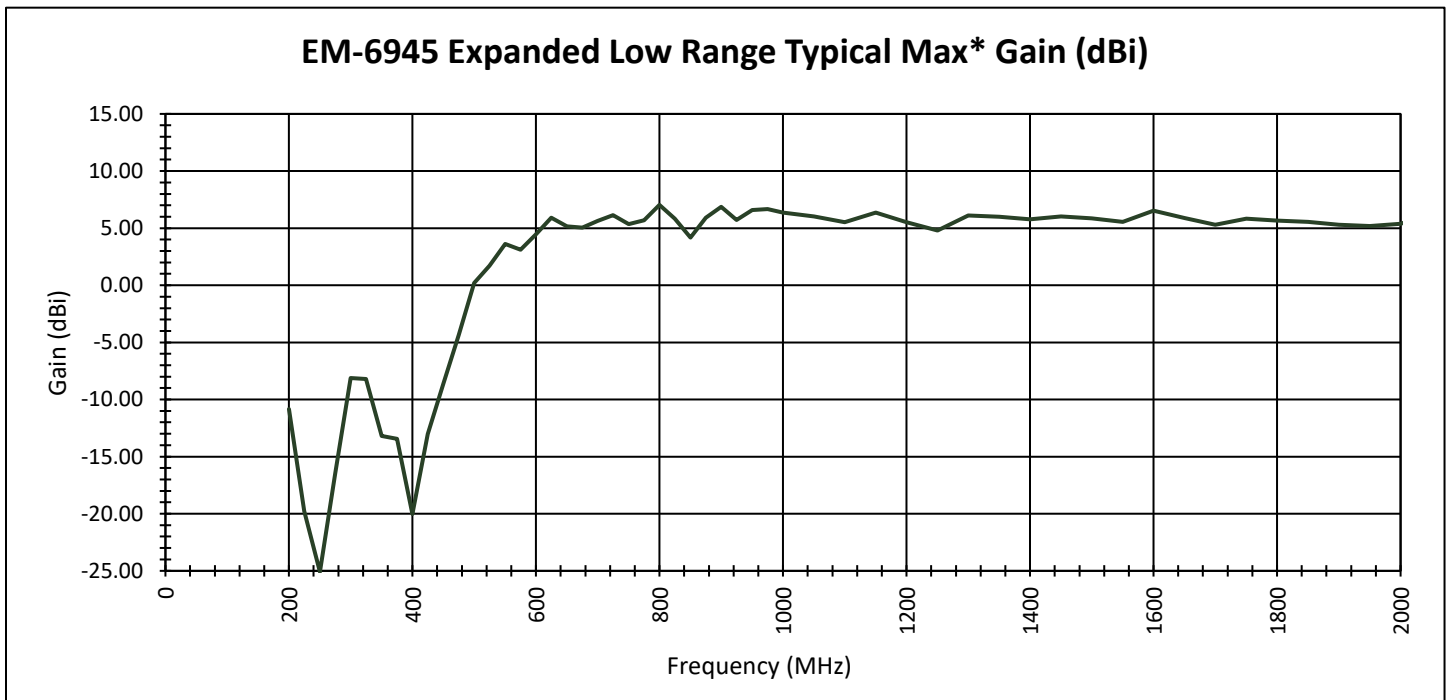
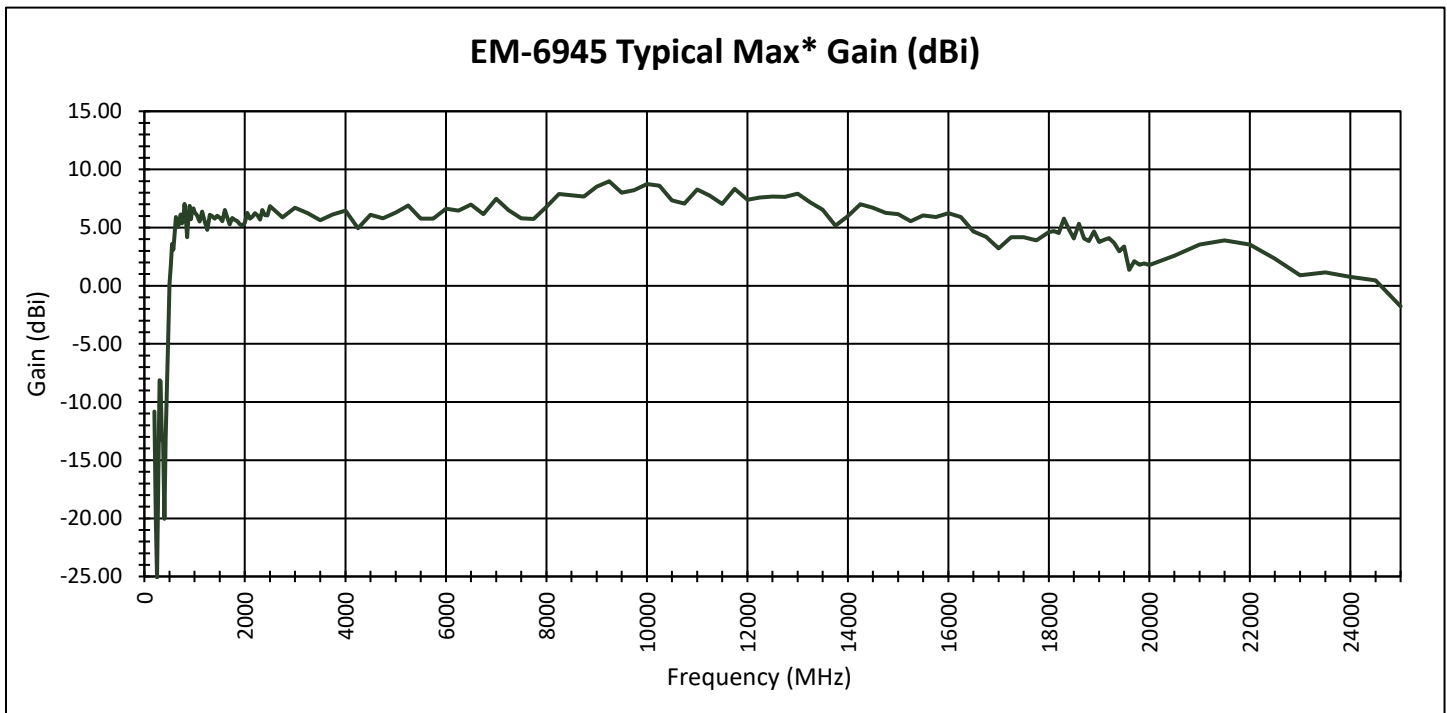
Color Options:

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EM-6945 | Antenna, Hand-Held Directional

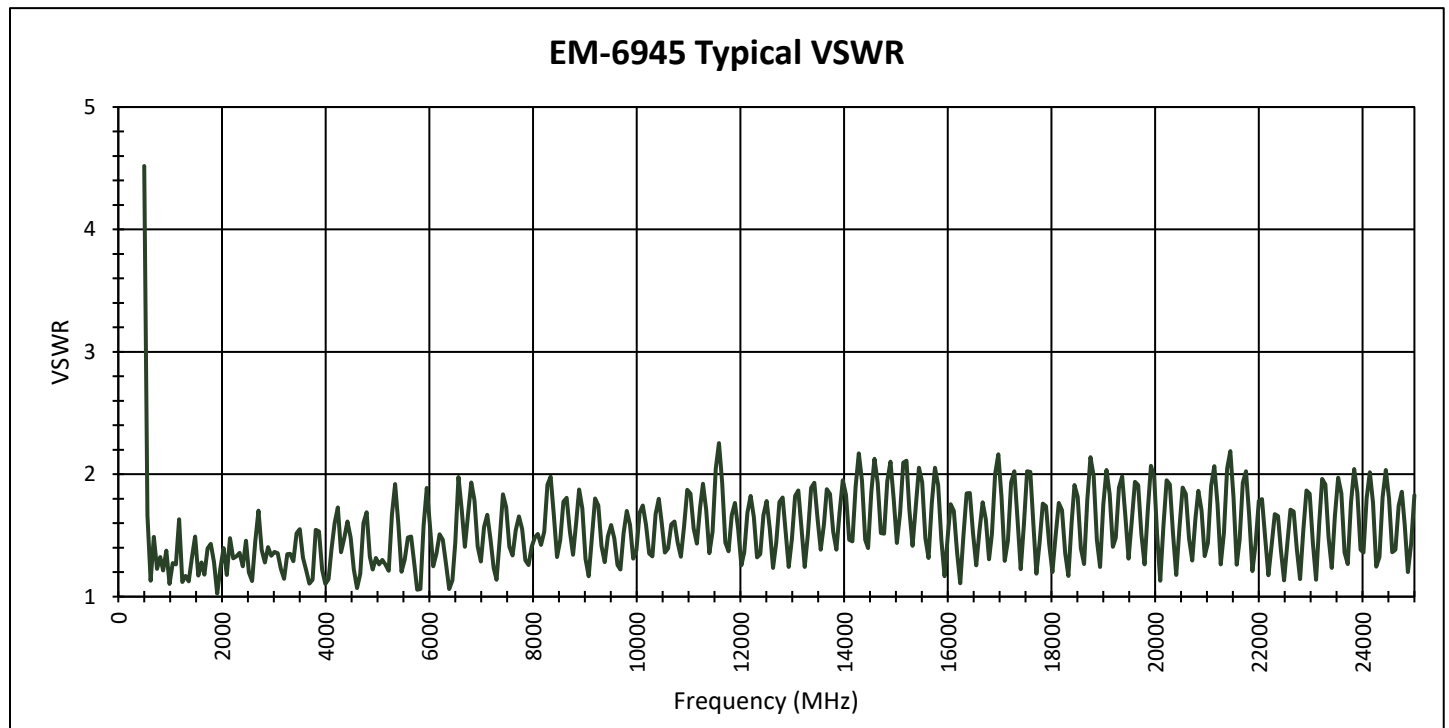
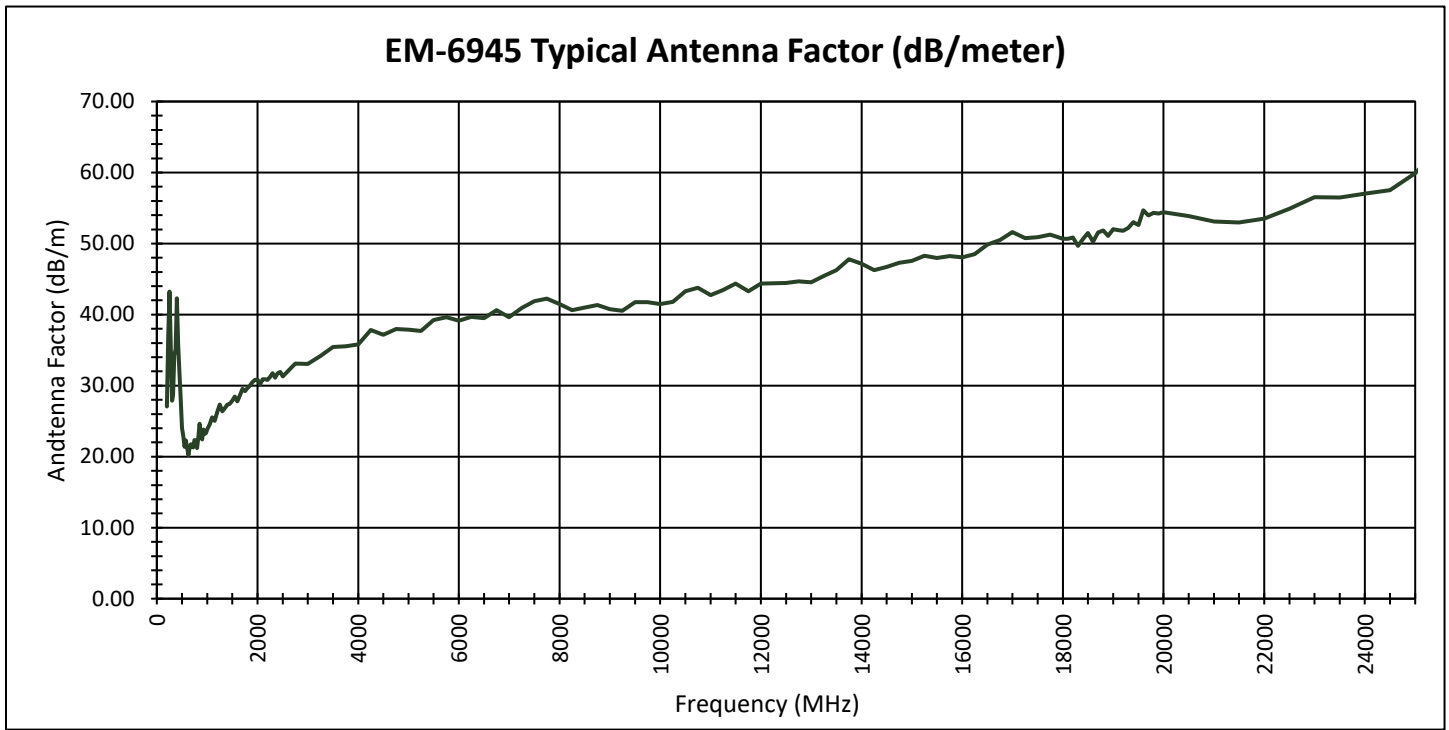


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EM-6945 | Antenna, Hand-Held Directional



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EM-6904-1 | Antenna, Whip, Omni-Directional



Description

The EM-6904-1 Omni-Directional Whip antenna is used to provide E-field signal reception for frequencies down as low as 1 kHz. The solid base, and rubberized whip or available 60 inch collapsible rod, combine for a rugged, effective means to detect signals in the HF range. The EM-6904-1 is an un-calibrated antenna.

Specifications

Electrical

Frequency Range: 1 kHz – 200 MHz

Gain With “Rubber Ducky” Element:

Uncalibrated

Gain With 60” Collapsible Rod:

Above 50 MHz: > -10dBi Nominal

30 MHz – 50 MHz > -20 dBi Nominal

Above 2.5 MHz > -60 dBi Nominal

Beamwidth: 360° Azimuth (Omni-Directional)

Impedance: 50Ω, Nominal

Connector: BNC (female) on 18” Coaxial Cable

Mechanical

Dimensions:

Diameter:

Base: 8.89 cm (3.5”)

Rod (at Connector): 1.91 cm (0.75”)

Height:

Base: 4.76 cm (1.86”)

Rod (Collapsed): 19.89 cm (7.75”)

Rod (Extended): 153.7 cm (60.5”)

Weight: 0.46 kg (1.01 lbs.)

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