EM-6500 | Antenna, Wideband Whip/Monopole

Specifications

Electrical

Frequency Range: 30MHz – 512MHz

Polarization: Linear, Vertical

VSWR: 3.5:1 Max, Less than 2:1 Average

Antenna Pattern: Omnidirectional

Impedance: 50Ω, Nominal

Gain: -3.5 dBi Average above 100MHz

-15.5 dBi @ 30MHz

-6.3 dBi @ 100MHz

Power Handling: 15W CW

Connector: TNC (m) (**EM-6500** | 30MHz-512MHz)

Type 'N' (m) (**EM-6500-1** | 30MHz-512MHz)

Mechanical

Dimensions:

Length: 21.25" (539.8 mm)

Diameter: EM-6500: 0.85 in. base (21.6 mm)

EM-6500-1: 1.25 in. base (31.8 mm)

Blade Width: 0.8 in. (20.3 mm)

Weight: EM-6500: 0.38 lbs. (173g)
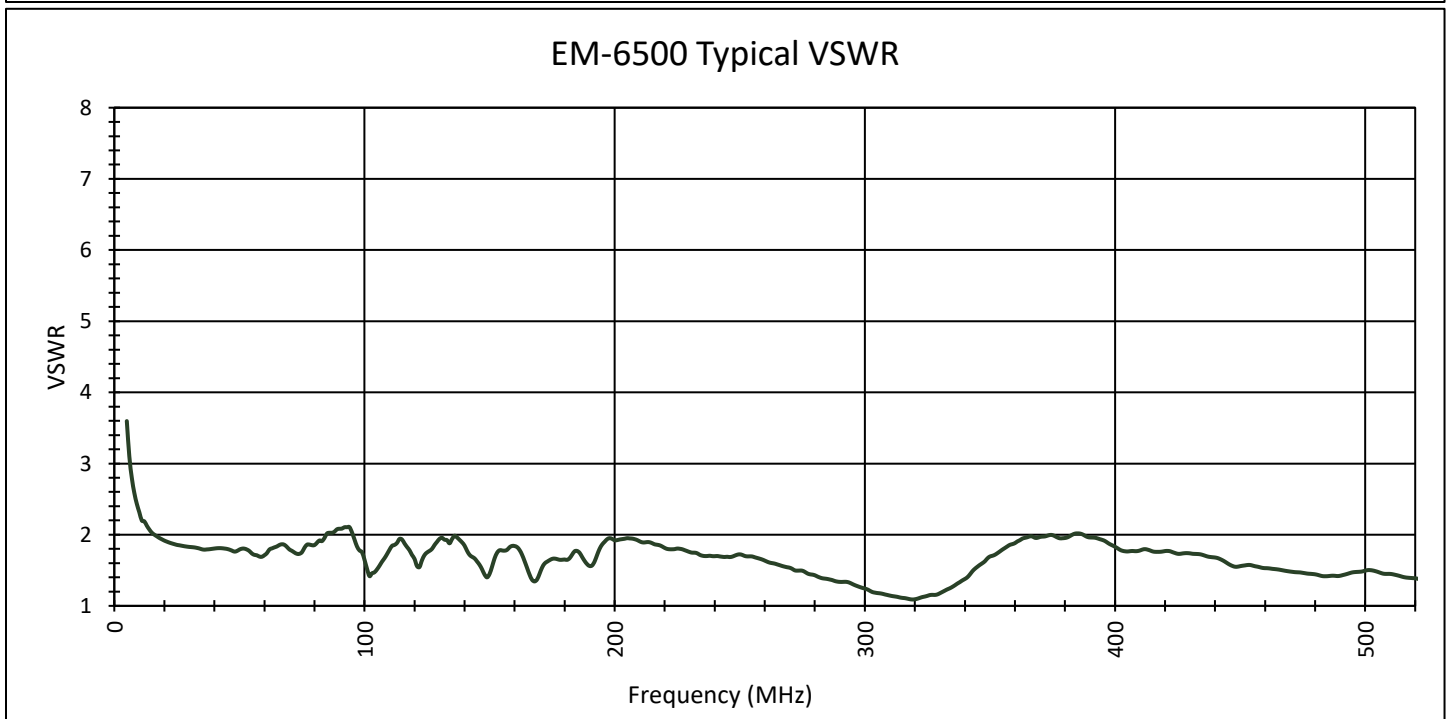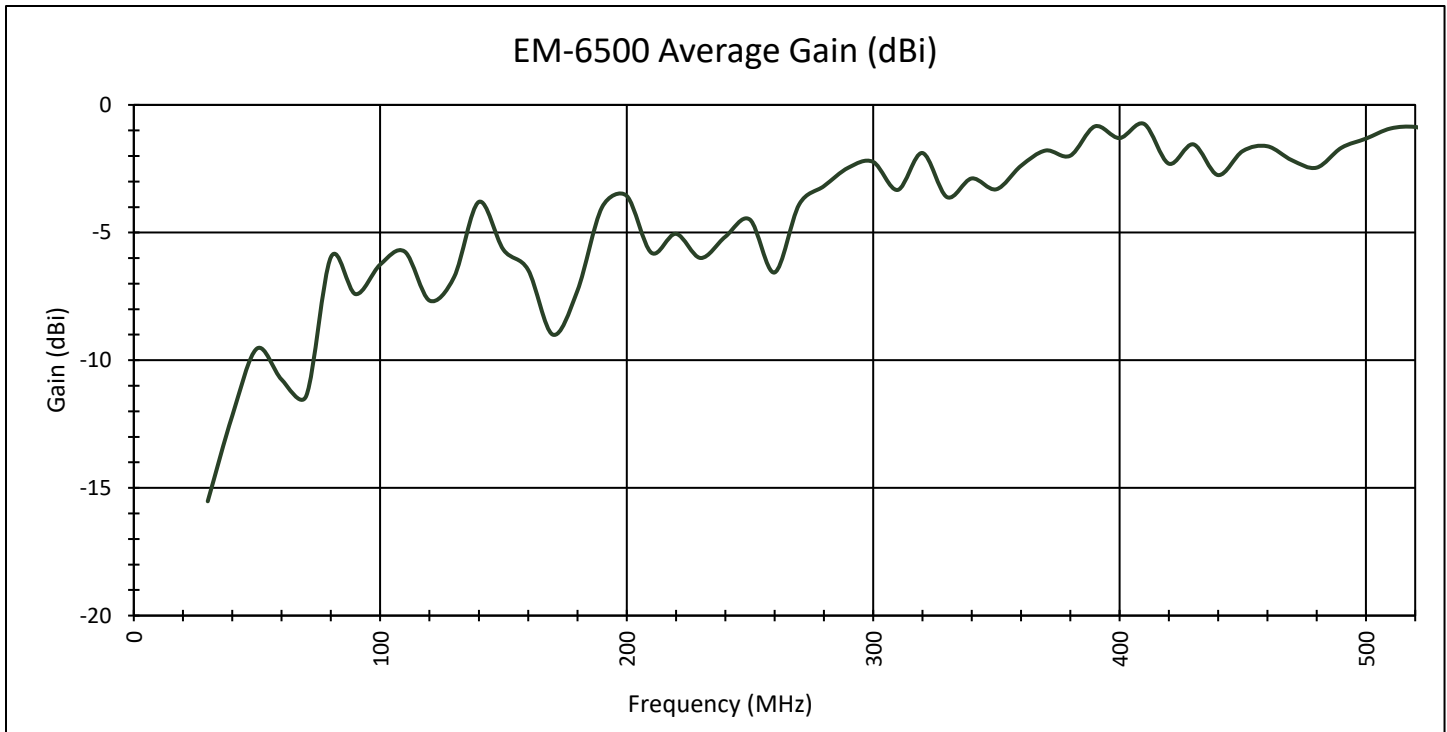
EM-6500-1: 0.5 lbs. (227g)

Optional Accessories:

Antenna Relocation Kit

Description

The Electro-Metrics EM-6500 is a high performance Wideband Monopole Whip Antenna designed to offer reliable performance in a rugged MANPACK/Radio compatible package.

Made in the USA, the EM-6500 is constructed out of premium impact resistant*, UV resistant*, and weather resistant* materials.

The EM-6500 consists of a foldable semi-rigid element and a matching circuit in the base with a fixed TNC (male) Connector (EM-6500) or (male) connector Type-N (EM-6500-1) at the end.

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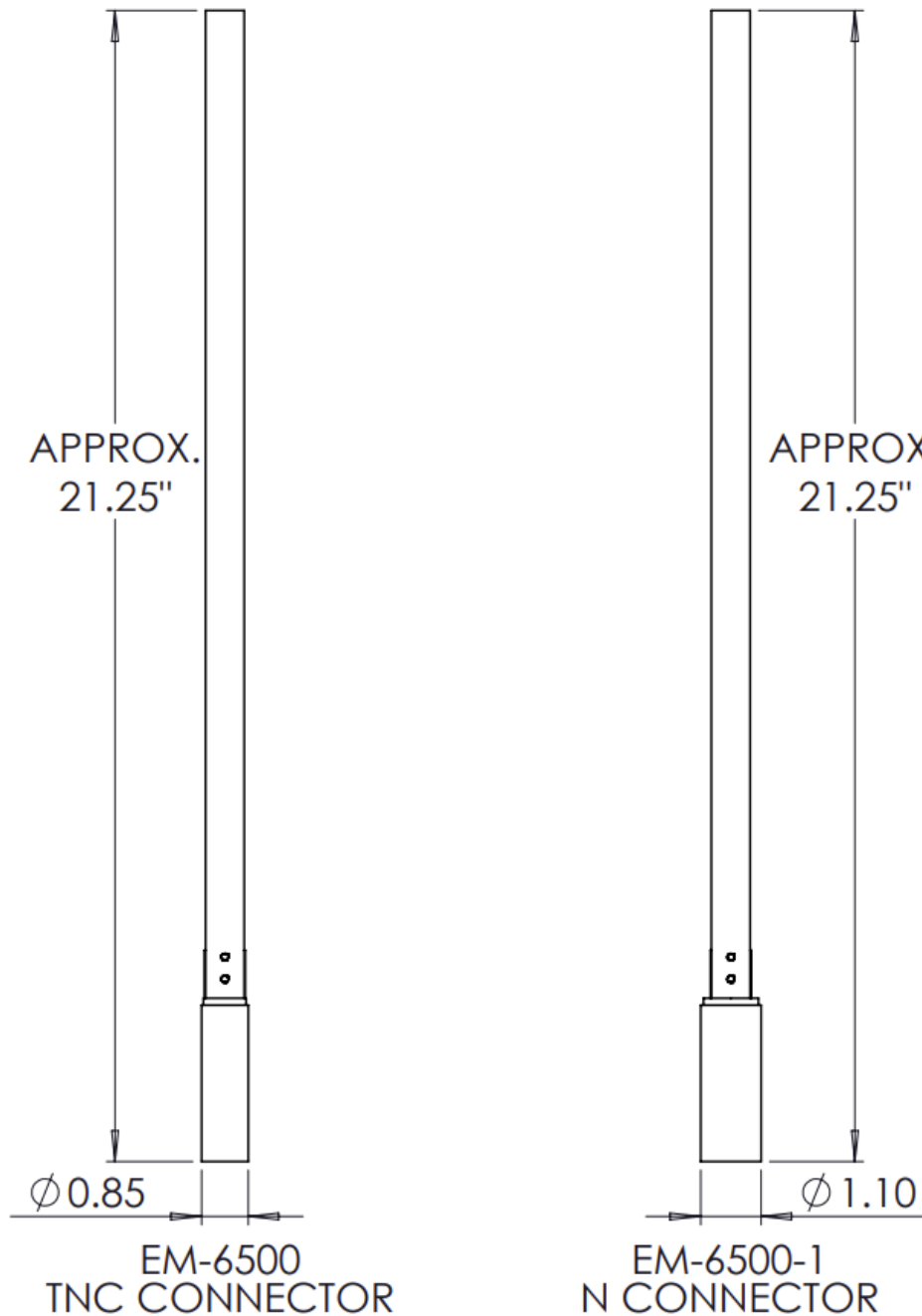EM-6500 Average Gain (dBi)

EM-6500 Typical VSWR

Gain measured at 10m separation using identical antennas positioned directly above ground plane. Average gain is shown.

VSWR measured directly on VNA Port without cable.

Data shown is typical, not guaranteed.

MADE IN USA

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APPROX. 21.25"

APPROX. 21.25"

Ø 0.85

Ø 1.10

EM-6500
TNC CONNECTOR

EM-6500-1
N CONNECTOR

ENGINEERING DRAWING

EM-6500-1

Unfolded/Deployed
Configuration

EM-6500-1

Folded Configuration

EM-6500-1

Folded Configuration

For reference only. Image shown is not to scale.

Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.

MADE IN USA