

EM-6857 | Antenna, Ultra-Wideband, Passive, Omni-Directional



Description

The Electro-Metrics EM-6857 is an Ultra-Wideband Passive Antenna with Omni-Directional radiation patterns covering the entire frequency range of 20MHz-40GHz.

Built with performance in mind, the EM-6857 features a gain of > 0dBi across 99% of its operational frequency. With its best-in-class performance, this antenna is an excellent choice for testing and measurements as well as SIGINT, IPMS, and related applications.

Specifications

Electrical

Frequency Range: 20 MHz – 40 GHz

Polarization: Linear, Vertical

VSWR: Average 2:1 above 400 MHz

Beam width: 360° Azimuth (Omni-Directional)
45° Average Elevation (70° - 30° Typical)

Impedance: 50Ω, Nominal

Gain: 150MHz-40GHz Nominal > 0dBi

@100MHz Nominal -17dBi

@20MHz Nominal -40dBi

Connector: Type 'K' (EM-6857 | 20MHz-40GHz)

SMA (EM-6857-2 | 20MHz-26GHz)

Type 'N' (EM-6857-1 | 20MHz-18GHz)

Mechanical

Dimensions:

Overall Length: 44.5 cm (17.5")

Diameter: 11.5 cm (4.5")

Weight: 1.34 kg (2.95 lbs.)

Options Available:

EM-1607 Tripod Mount (included w/ all models)

EM-6857A Environmental Hardening

EM-1608 Right Angle Wall Mount

EM-1108 Rugged Roof Rack Mount

EM-1109 Pole Mount

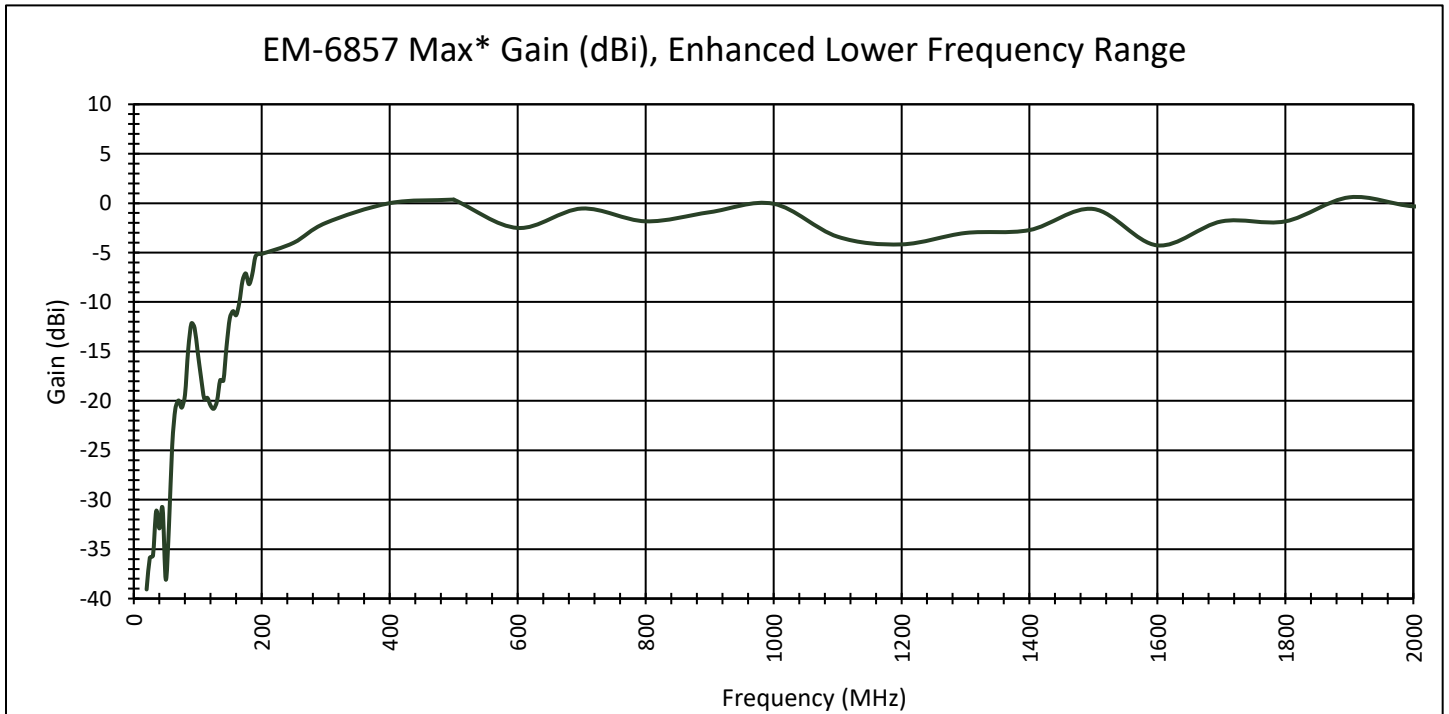
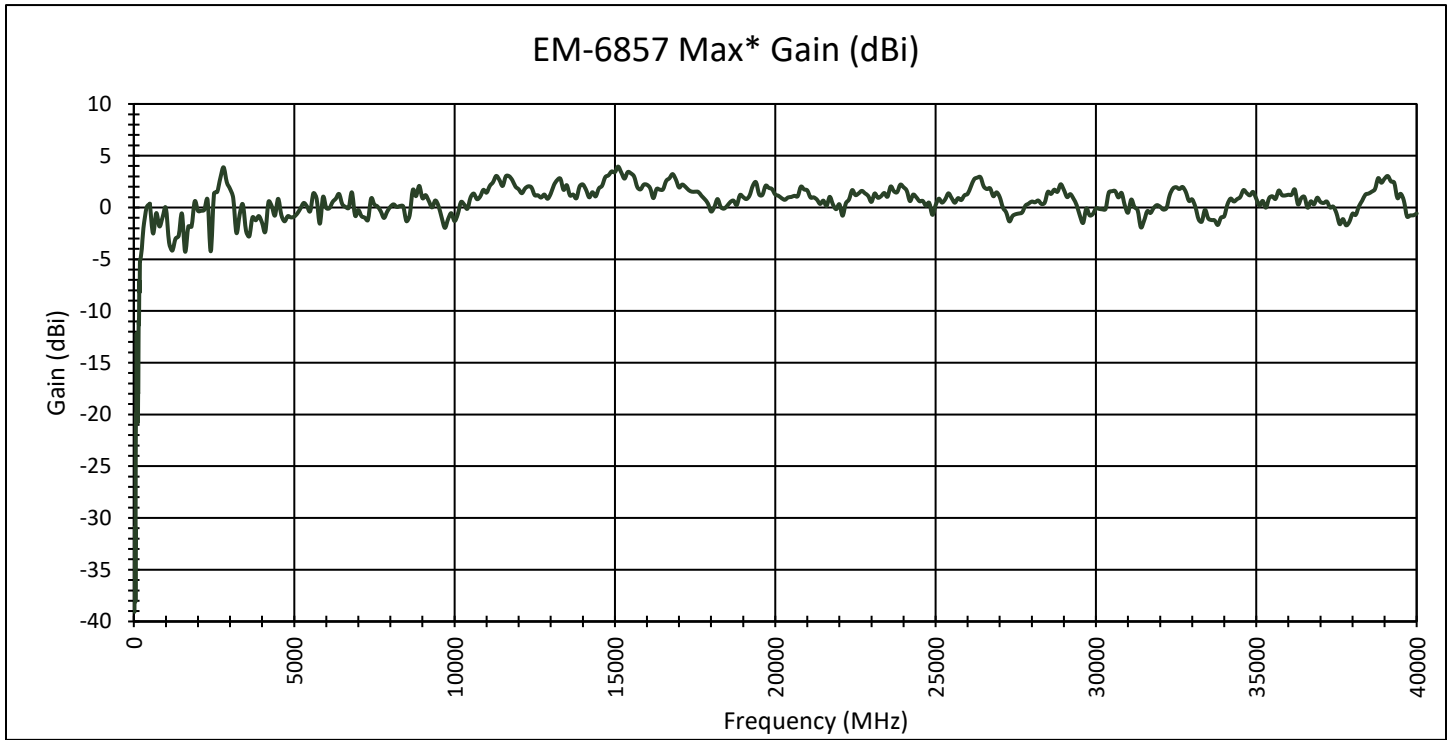
Color Options:

- White (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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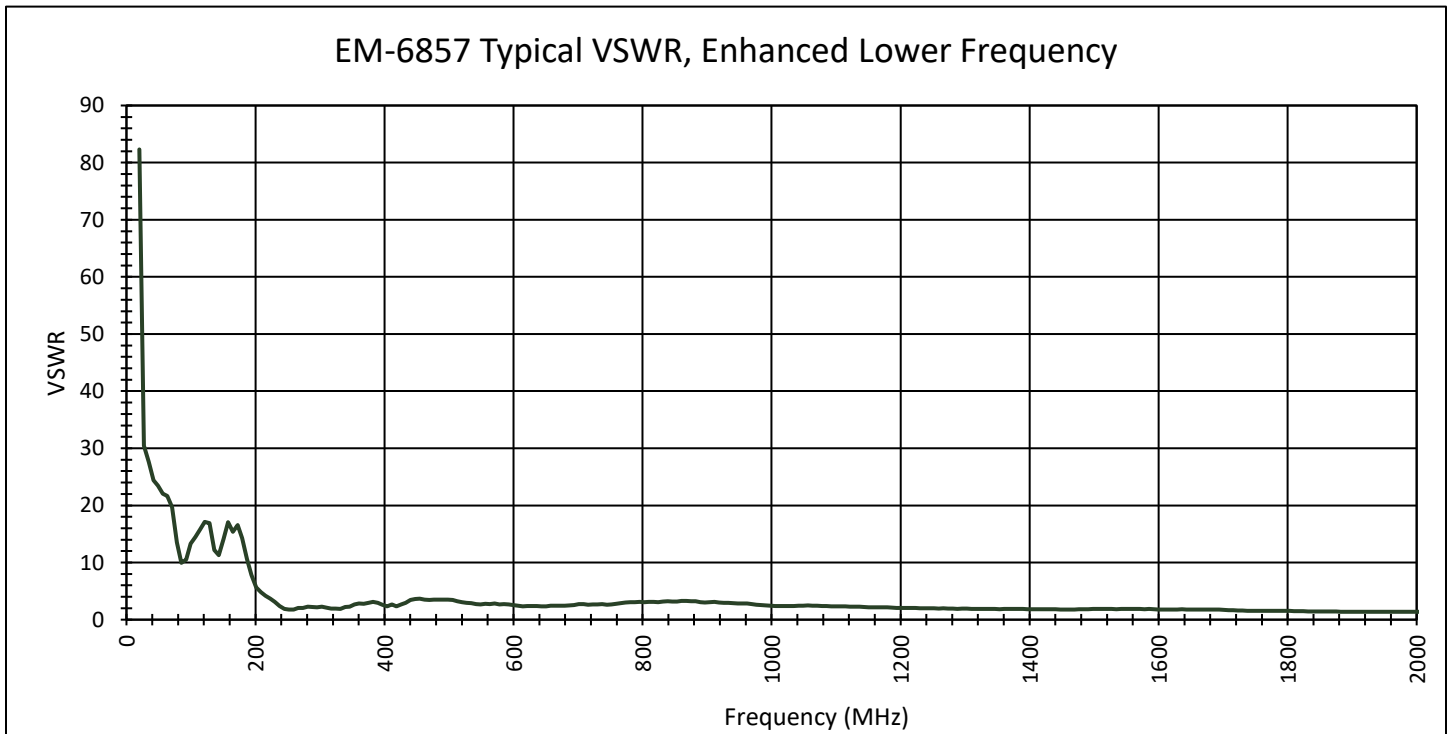
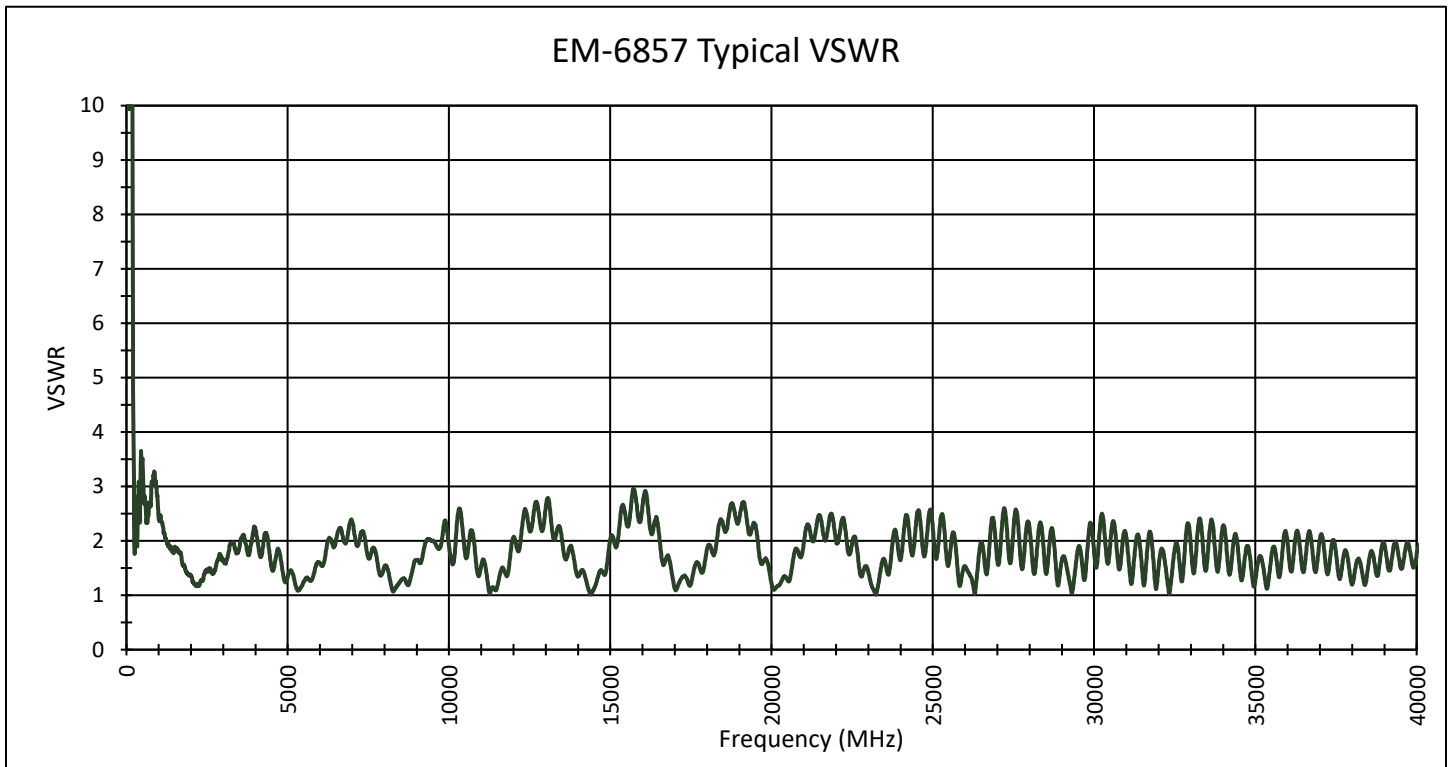


*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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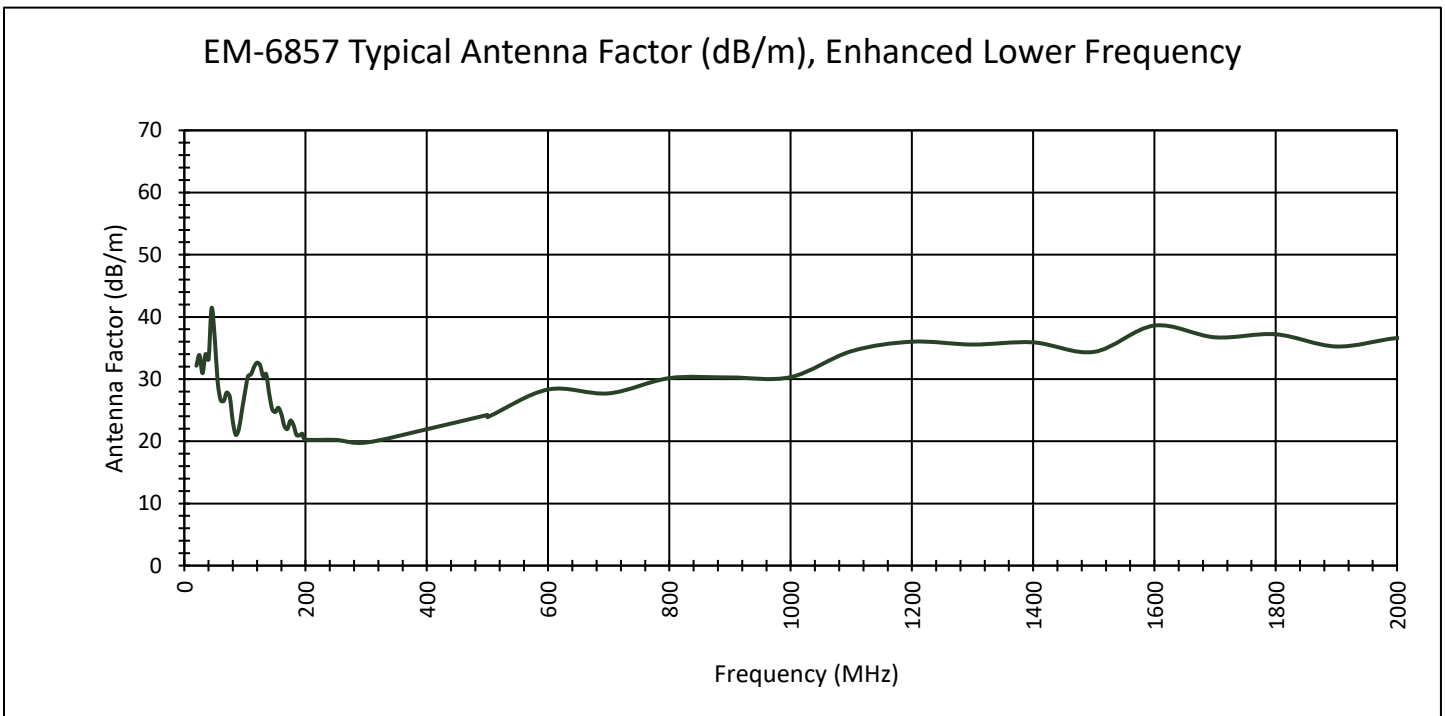
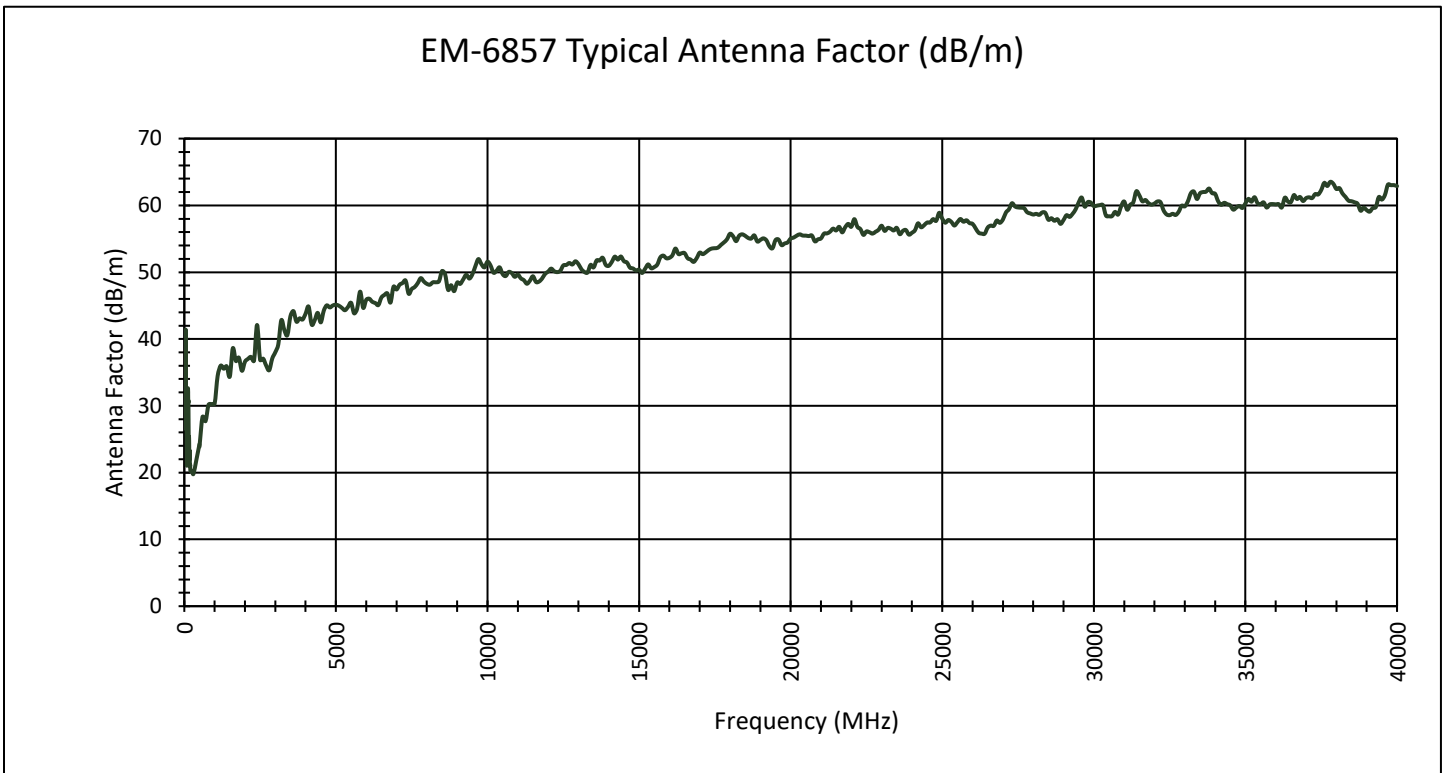


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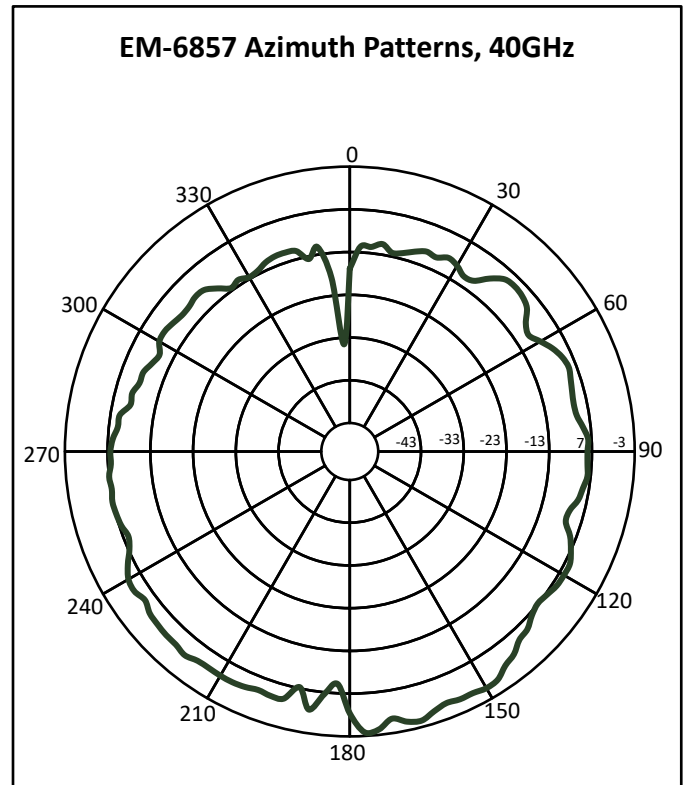
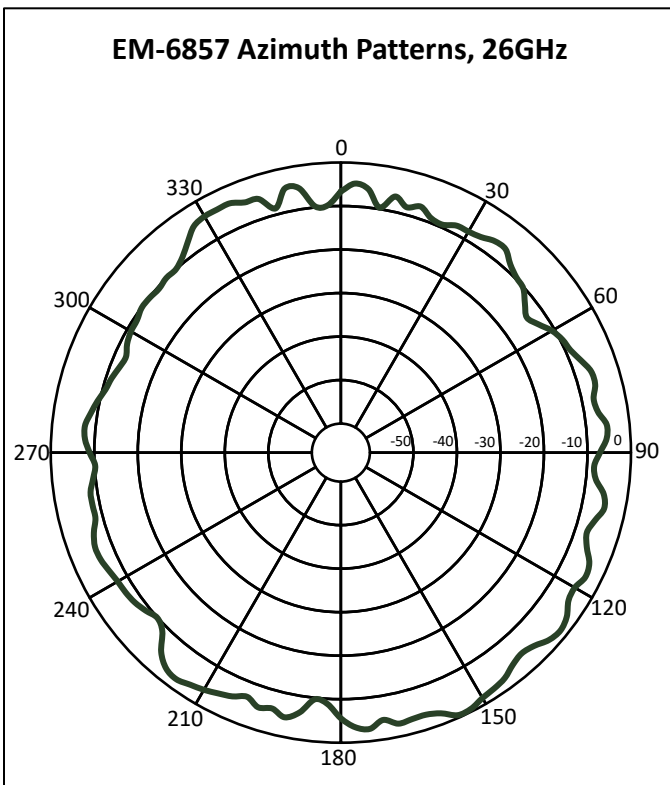
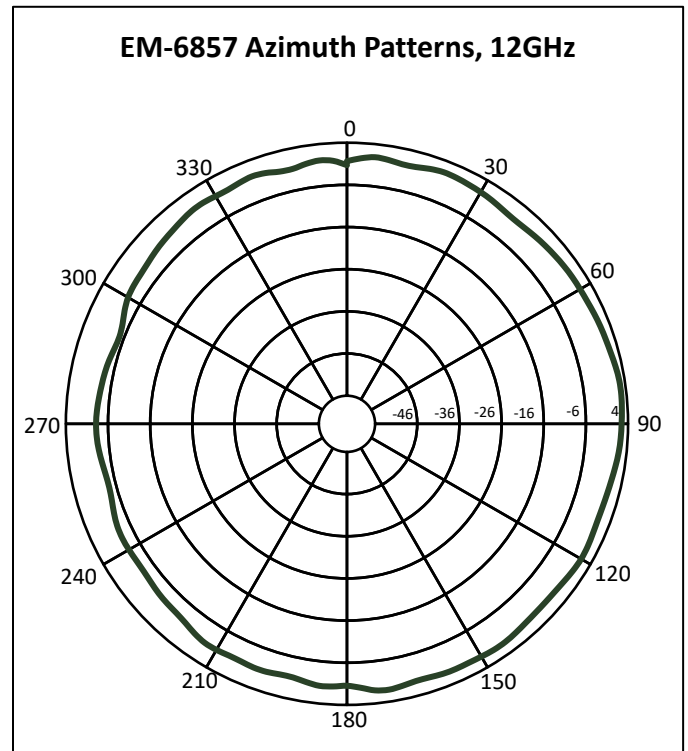
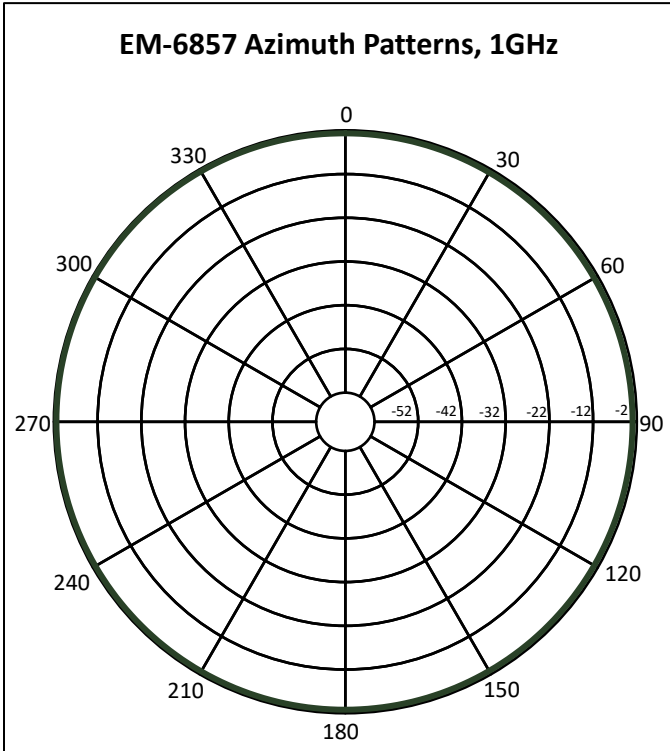


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Scale: 10dB/division. Maximum values vary per chart. Data shown is typical, not guaranteed.

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