

## EM-6854 | Antenna, Rugged, Ultra-Wideband, Passive, Omni-Directional



### Description

The EM Antennas' EM-6854 is an Ultra-Wideband Passive Antenna with Omni-Directional radiation patterns covering the entire frequency range of 20 MHz-40 GHz.

Built with durability and performance in mind, the EM-6854 features a gain of > -2 dBi across 95% of its operational frequency range while still passing a battery of MIL-STD-810H tests.

This antenna is an excellent choice for SIGINT, IPMS, and related applications.

### MIL-STD-810H

This antenna has undergone and passed the Hot Temperature, Cold Temperature, Blowing Rain, Blowing Sand, and Shock and Vibration Environmental Tests, in accordance with MIL-STD-810H. Please contact EM Antennas for the detailed report.

## Specifications

### Electrical

<b>Frequency Range:</b>	20 MHz – 40 GHz
<b>VSWR:</b>	Average 2:1 above 400 MHz
<b>Beam width:</b>	360° Azimuth (Omni-Directional) 70° Average Elevation
<b>Impedance:</b>	50Ω, Nominal
<b>Gain:</b>	150 MHz-40 GHz Nominal > -2 dBi @ 100 MHz Nominal -16 dBi @ 20 MHz Nominal -40 dBi
<b>Connector:</b>	Type 'K' (20 MHz-40 GHz) (Default) SMA (20 MHz-26 GHz) Type 'N' (20 MHz-18 GHz)

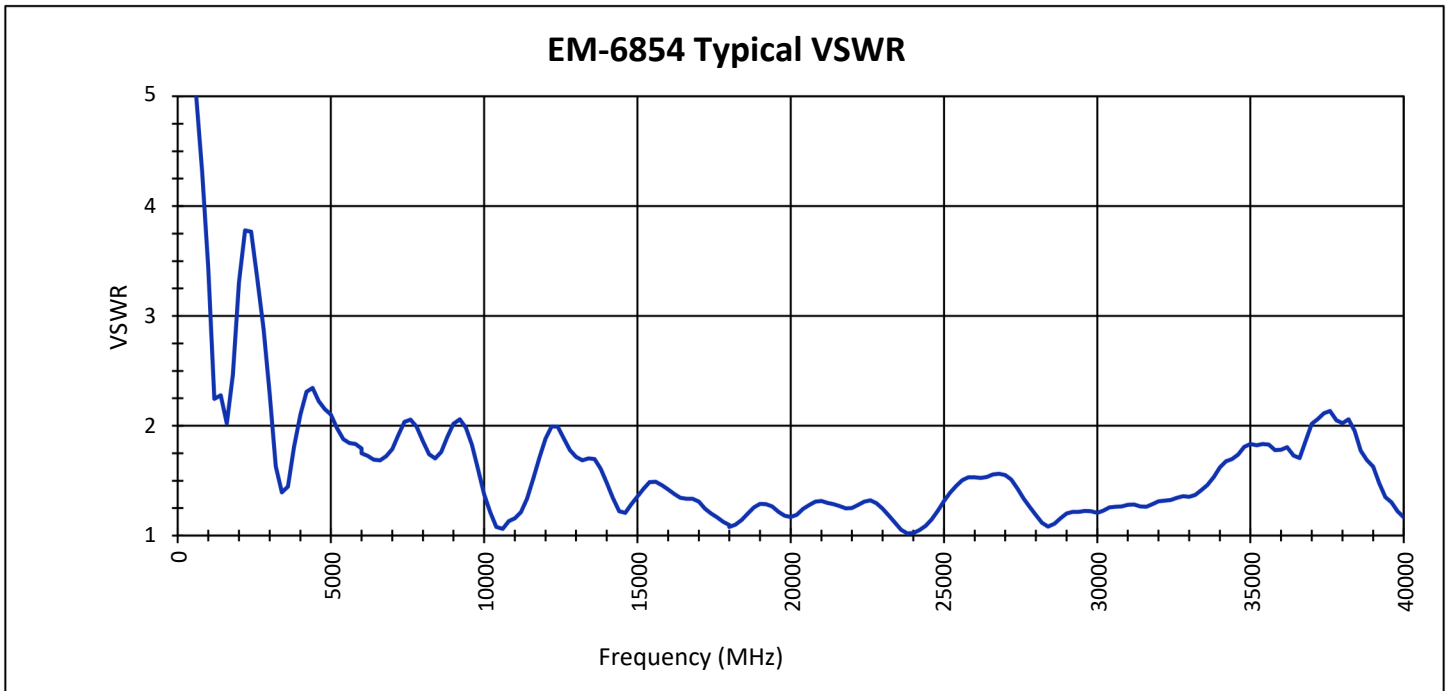
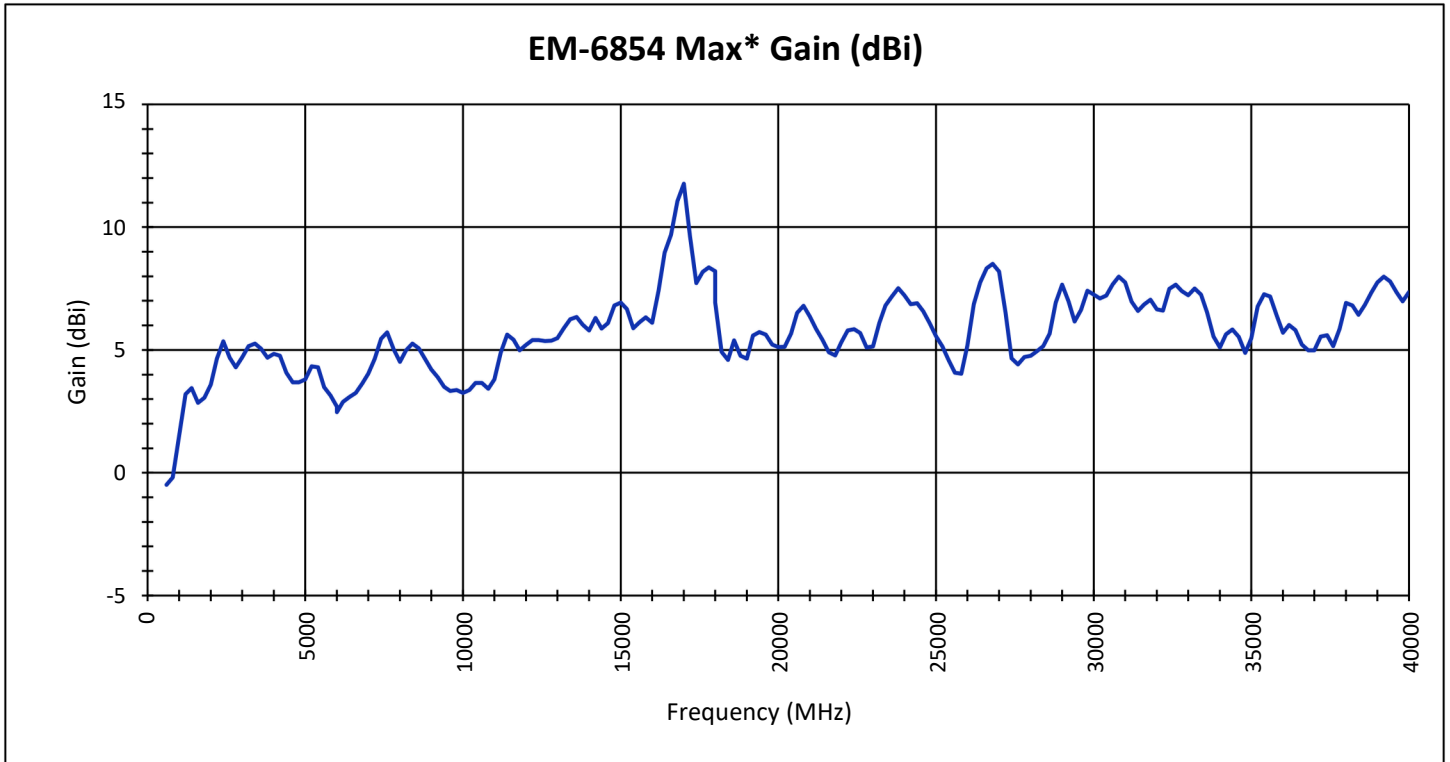
### Mechanical

<b>Overall Length:</b>	53.25 cm (22")
<b>Diameter:</b>	12.7 cm (5.25")
<b>Weight:</b>	2.77 kg (6.1 lbs.)
<b>Mounting Options Available:</b>	(4) 3/8 – 16 TPI Bolts (included) XF-N200 1/4 – 20 Tripod Mount (included)
<b>Color Options:</b>	<ul style="list-style-type: none"> <li>Black (Default)</li> <li>Custom colors available upon request</li> </ul>

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



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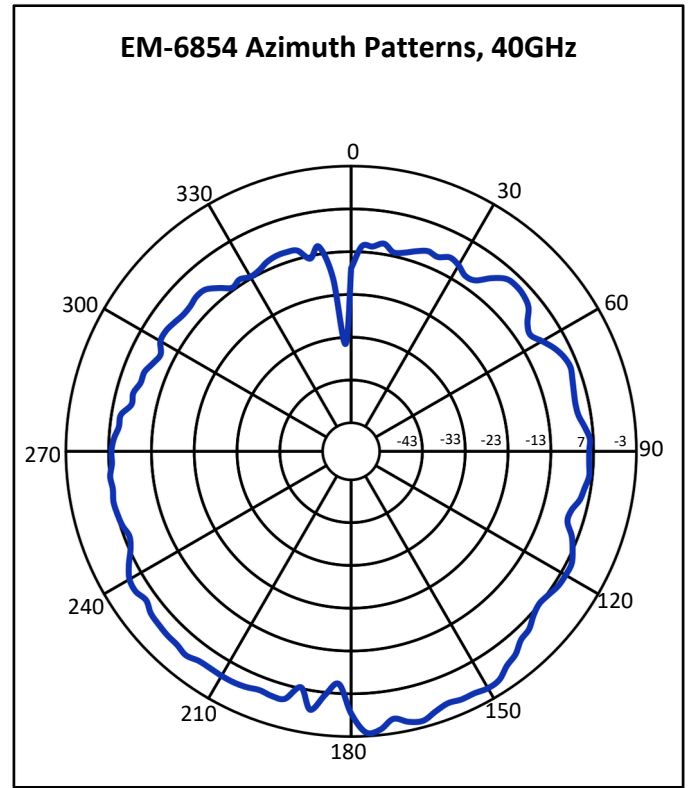
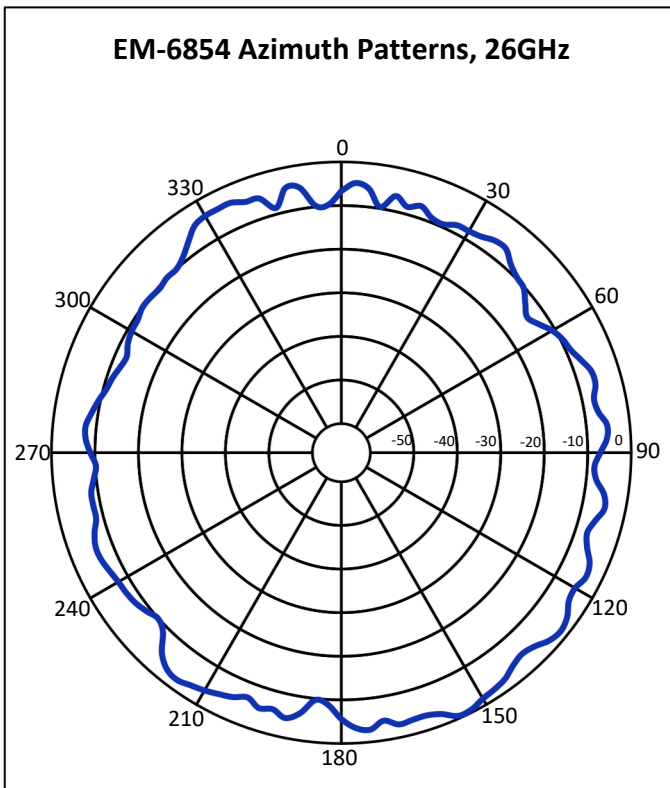
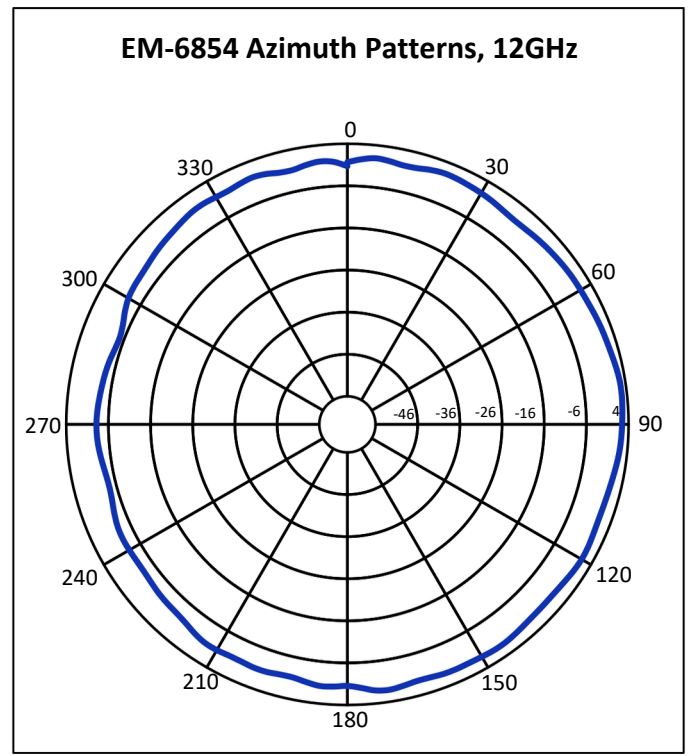
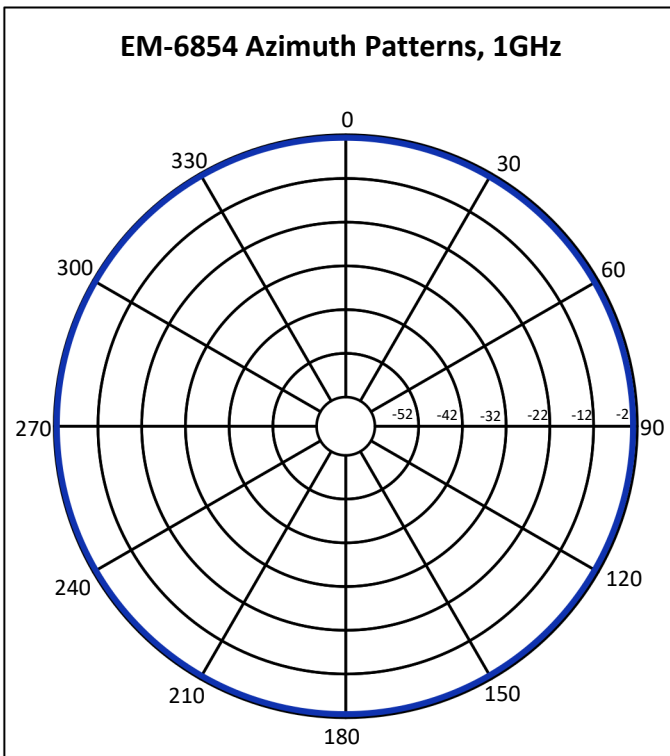


\*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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Scale: 10dB/division. Maximum values vary per chart.

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