

## EM-6906 | Antenna, Rugged, Magnetic Field, Hand-Held



### Description

The Electro-Metrics EM-6906 Magnetic Field Antenna is designed to obtain magnetic field measurements from 5kHz to 20MHz. Calibrated for use in any 50Ω system as a receive only device, the EM-6906 is ideal for tracking a signal source through a wide range of frequencies.

### 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 Electro-Metrics for the detailed report.

### Specifications

#### Electrical

**Frequency Range:** 5 kHz – 20 MHz

**Impedance:** Calibrated for use in a 50Ω system

**Antenna Factor:** 15 dB/m Average

> 0 dB/m Minimum (Typical)

60dB/m Maximum (Typical)

**Connector:** Type 'N' (female)

#### Mechanical

##### Dimensions:

Length: 24.1 cm (9.5")

Width: 24.1 cm (9.5")

Height: 15.9 cm (6.25") With Handle

4.3 cm (1.7") Without Handle

**Weight:** 1.46 kg (3.2lbs.)

##### Mounting Options Available:

1/4 – 20 Tripod Mount Handle (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.



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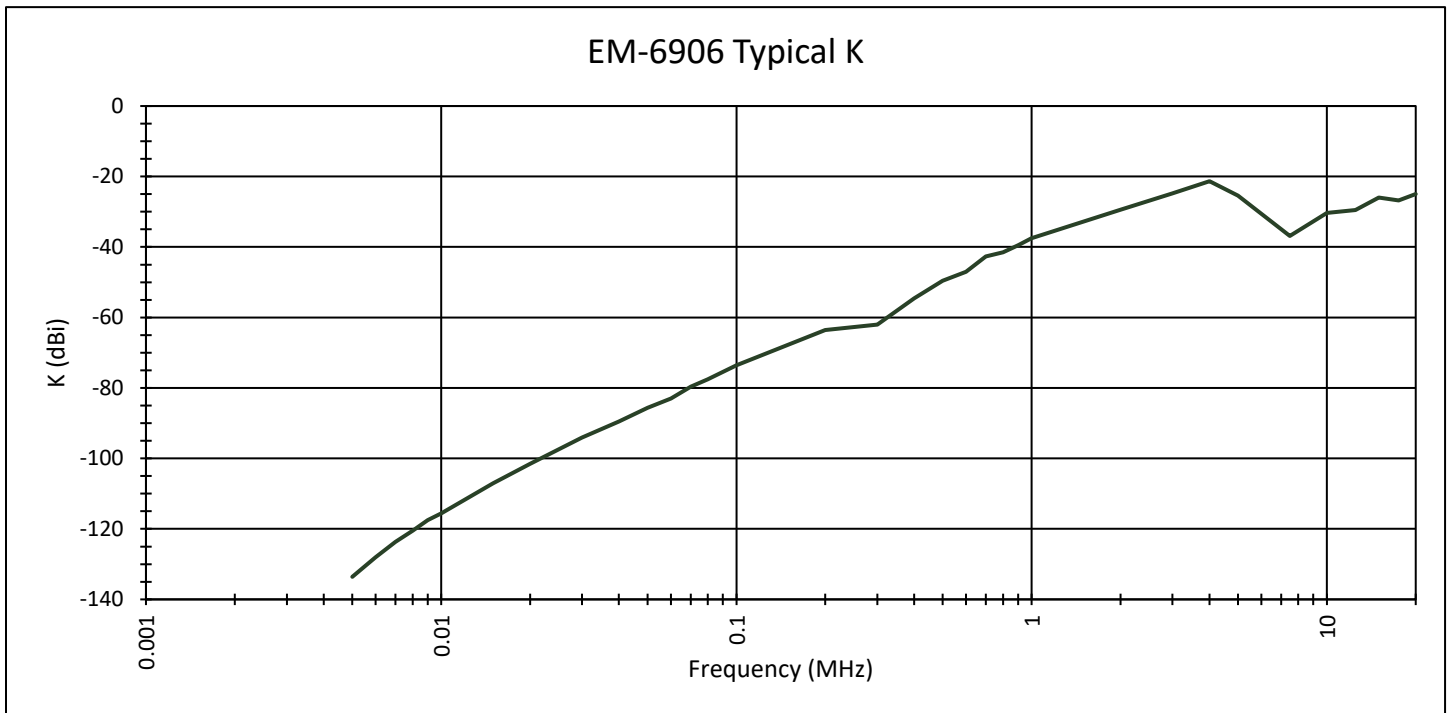
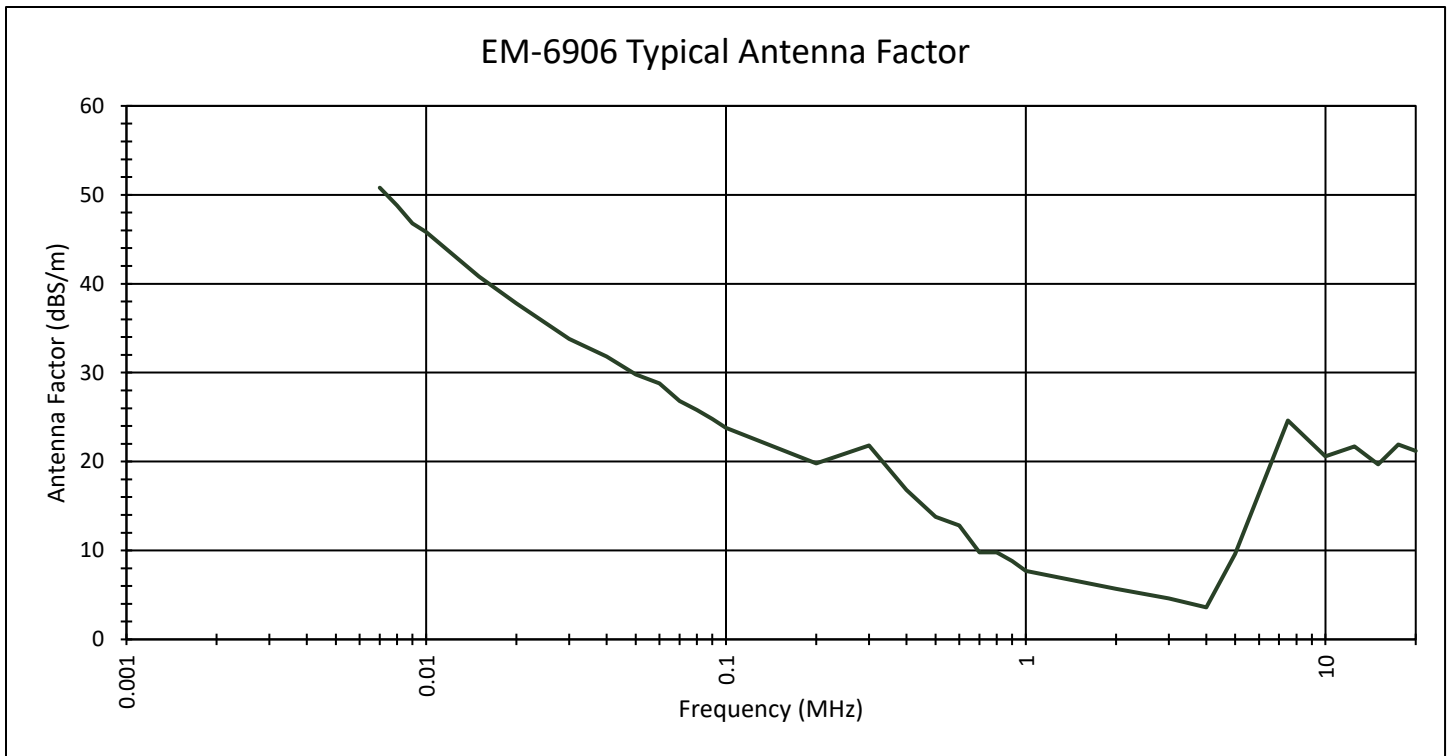
Frequency (MHz)	K	Antenna Factor
0.005	-133.595	57.8
0.006	-128.011	53.8
0.007	-123.672	50.8
0.008	-120.512	48.8
0.009	-117.489	46.8
0.01	-115.574	45.8
0.015	-107.052	40.8
0.02	-101.554	37.8
0.03	-94.0317	33.8
0.04	-89.533	31.8
0.05	-85.5948	29.8
0.06	-83.0111	28.8
0.07	-79.6722	26.8
0.08	-77.5124	25.8
0.09	-75.4893	24.8
0.1	-73.5742	23.8
0.2	-63.5536	19.8
0.3	-62.0317	21.8
0.4	-54.533	16.8
0.5	-49.5948	13.8
0.6	-47.0111	12.8
0.7	-42.6722	9.8
0.8	-41.5124	9.8
0.9	-39.4893	8.8
1	-37.4742	7.7
2	-29.4536	5.7
3	-24.8317	4.6
4	-21.333	3.6
5	-25.3948	9.6
7.5	-36.8729	24.6
10	-30.3742	20.6
12.5	-29.536	21.7
15	-25.9523	19.7
17.5	-26.8134	21.9
20	-24.9536	21.2
20	-24.9536	21.2

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