

Features

- **Frequency Range: 10 MHz - 40 GHz**
- **Dynamic Range: 2.0 - 800 V/m (single range)**
- **Reads/Displays Individual Axis and Summed Axis Values**
- **Fully Compatible With HI-6005/FP6001 Command Set**
- **Suitable for Commercial Specs:**
 - EN/IEC 61000-4-3 Radiated Immunities
- **Suitable for Mil Standards Specs:**
 - MIL-STD 461E Radiated Susceptibility (RS)
 - DO-160
- **Suitable for Automotive for:**
 - SAE J1113/27
 - GM9120P
 - GM3100GS
 - GM9114P



ETS-Lindgren's Model HI-6053 Electric Field Probe

ETS-Lindgren's HI-6053 EMF Field Probe provides broadband EMF frequency coverage and wide dynamic range that satisfies the demands of most test requirements. To take advantage of this capability, the HI-6053 was designed to be single range reading so data can be read continuously over the entire dynamic range. Data values on each axis (X, Y, Z) can be read individually, or summed.

The isotropic deviation (isotropy) of the HI-6053 is near ideal -- 0.5 dB. This means the HI-6053 makes accurate field intensity measurements regardless of its orientation to the field of interest.

Fiber optic signal and control lines link from the Model HI-6053 probe to either the optional Model HI-6100 or FM5004 Field Monitors, or the optional HI-4413P Interface Module and ProbeView™ II software.

Both the HI-6100 and the FM5004 monitors provide manual functions and programmed control via IEEE-488 and RS-232 Serial Data Interfaces. Readings from up to four probes can be displayed simultaneously, and can be any combination of E-field or H-field probes currently available.

The HI-4413P with ProbeView II software allows for easy connection of an RS-232 PC Serial port to the fiber optic cables of most Holiday

EMF probes. This allows quick and easy data gathering from the field sensors on a continual basis.

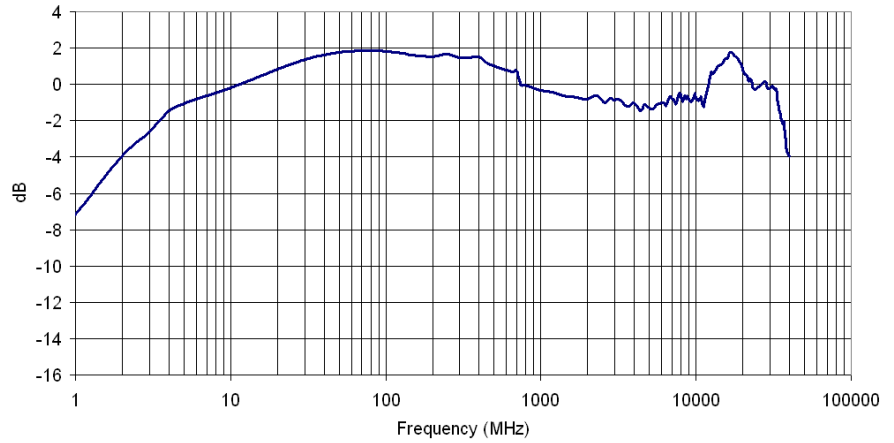
For extended field use, the HI-6053 runs up to 30 hours on field replaceable AAA batteries.

Standard Configurations HI-6053

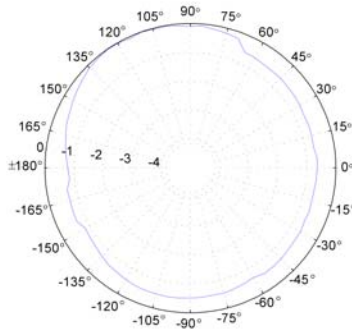
- Probe Assembly
- 10 m Fiber Optic Cable
- Carrying Case
- Battery Charger
- Manual
- Standard Calibration

HI-6053FM (used with HI-6100)

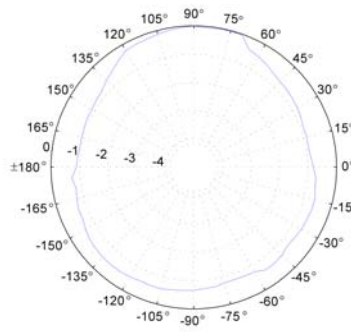
- Probe Assembly
- 10 m Fiber Optic Cable
- H-491277 Fiber Optic Port
- Carrying Case
- Battery Charger
- Manual
- Standard Calibration



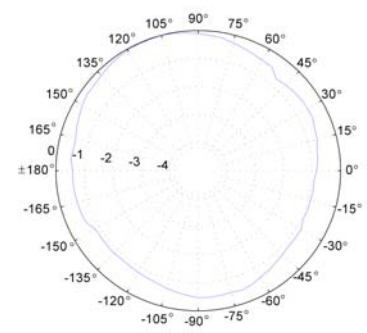
Typical Frequency Response for HI-6053



Typical Isotropic Response in dB at 1 GHz



Typical Isotropic Response in dB at 10 GHz



Typical Isotropic Response in dB at 18 GHz

Physical Specifications

OVERALL DIMENSIONS	WEIGHT	BATTERY	BATTERY CHARGER	BATTERY LIFE
43.2 cm x 10.2 cm 17.6 in x 4.0 in	.54 kg 1.25 lbs	Four rechargeable AAA batteries Nickel-Metal Hydride (NiMH)	115/230 VAC Approx. 3 hours	30 hours continuous at full charge

Electrical Specifications

FREQUENCY	TYPICAL FREQ.	DYNAMIC RANGE	LINEARITY	ISOTROPICITY
10 MHz - 40 GHz	10 MHz - 18 GHz +/- 2.5 dB 18 GHz - 40 GHz +2.0 dB - 4.0 dB	2 to 800 (V/m)	+/- 0.5 dB	+/- 1.0 dB