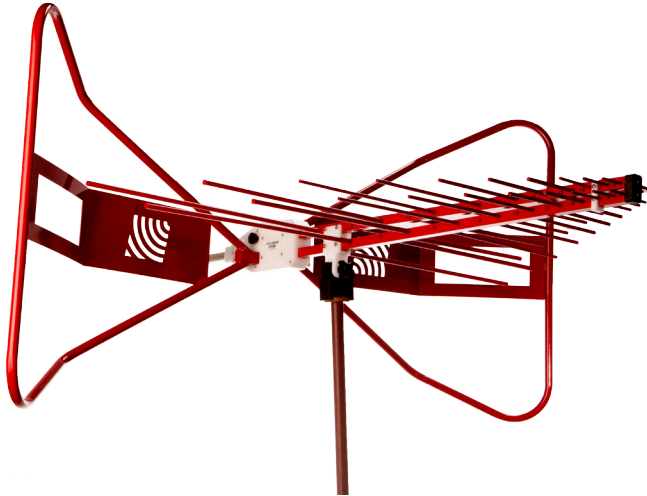


# EMC ANTENNAS BICONILOG™



## MODEL 3143B

- 30 MHz to 1 GHz Frequency Range
- 3:1 Maximum > 70 MHz VSWR
- For Emissions and Immunity Testing
- Accepts Either 1/4" 20 Thread Screw or Rear Stinger Mount
- Individually Calibrated at 10 m per ANSI C63.5, Horizontal Polarization

**ETS-Lindgren's Model 3143B BiConiLog Antenna** is a hybrid antenna that combines innovative design, compact size, and excellent performance. This antenna enables users to measure a frequency range of 30 MHz to 1 GHz in one sweep, negating the need for multiple antennas and time-consuming equipment setup. Accuracy and repeatability are improved, while time and money are saved.

The 3143B is designed as a dual-purpose antenna that can be used for both immunity and emissions testing.

This model includes a stinger mount as standard equipment. Individual antenna calibration data is provided for emission testing.

### Standard Configuration

- Antenna Assembly
- Mounting Bracket for 1/4" 20 Thread
- Stinger Mount
- Individually calibrated at 10 m per ANSI C63.5, horizontal polarization. Actual antenna factors/gain uncertainty values and a signed Certificate of Calibration Conformance included with manual.
- Manual

### Options

- ETS-Lindgren offers several non-metallic, non-reflective tripods. For easy horizontal and vertical polarization changes, the 7-TR tripod is recommended.

### Technical Specifications

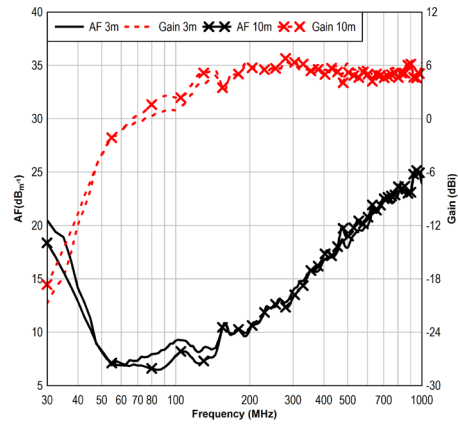
#### Electrical

Frequency Range	30 MHz to 1 GHz
VSWR	3:1 Maximum > 70 MHz
Maximum Continuous Power	500 W @ 30 MHz to 60 MHz 1 kW @ 60 MHz to 600 MHz 500 W @ 600 MHz to 1 GHz
Impedance (Nominal)	50 Ω
Connectors	(2) Type N Female

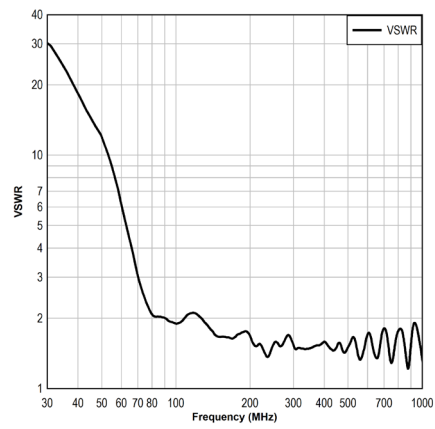
#### Physical

Height	76.2 cm 30.0 in
Width	133.9 cm 52.7 in
Depth	124.3 cm 49.0 in
Weight	5.5 kg 12.0 lbs

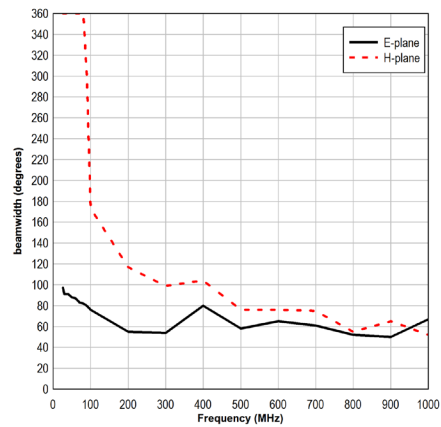
**Antenna Factor and Gain Typical Measured Data Performance**



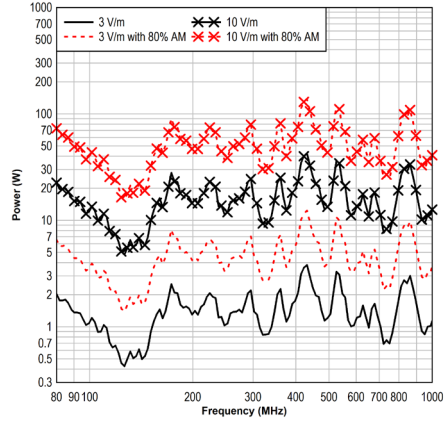
**VSWR Typical Measured Data Performance**



**Beamwidth Typical Measured Data Performance**



**Typical Average Power Required in Horizontal Polarization**



**Typical Average Power Required in Vertical Polarization**

