

## 3143B BICONILOG ANTENNA

ETS-Lindgren's Model 3143B BiConiLog™ is a hybrid antenna that combines innovative design, compact size, and excellent performance.



ETS-Lindgren's Model 3143B BiConiLog 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. This BiConiLog is designed as a dual-purpose antenna that can be used for both immunity and emission testing.

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

### Key Features

- 30 MHz to 1 GHz Frequency Range
- 3:1 VSWR Above 70 MHz For Emissions and Immunity Testing
- Flexible Mounting
- Individually Calibrated

### Features

#### Frequency Range

The model 3143B frequency range covers from 30 MHz to 1 GHz. This frequency range covers the necessary range of emissions testing on a traditional OATS/semi-anechoic chamber setup.

#### VSWR Levels

Typical VSWR for the 3143B is >3:1 above 70 MHz, an excellent level at this low frequency for an antenna this size.

#### Emissions and Immunity Antenna

Emission measurements can be performed without having to change antennas. For immunity measurements, the 3143B covers the typical 80 MHz to 1 GHz range.

#### Flexible Mounting System

The model 3143B comes with a bracket that accepts either a 1/4 in x 20 thread screw or rear stinger mount.

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**ETS-LINDGREN**  
An ESCO Technologies Company

## Specifications

### Electrical Specifications

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**Frequency Maximum:** 1 GHz  
**Frequency Minimum:** 30 MHz  
**Pattern Type:** Directional  
**Polarization:** Linear

### Physical Specifications

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**Width:** 133.9 cm (52.72 in)  
**Depth:** 124.3 cm (48.94 in)  
**Height:** 76.2 cm (30.00 in)  
**Weight:** 5.5 kg (12.13 lb)

### Additional Specifications

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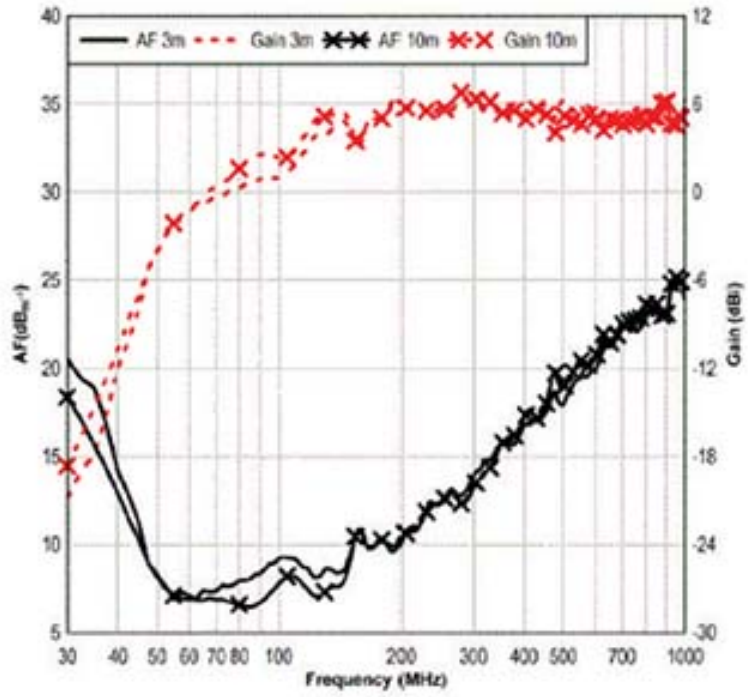
- Antenna Assembly
- Mounting Bracket for ETS-Lindgren or Other Tripod Mounts with 1/4 in x 20 Threads
- Stinger Mount
- Individually Calibrated:
  - 10 m per ANSI C63.5
  - 3 m per SAE ARP 958
  - 1 m per SAE ARP 958
- Actual antenna factors and a signed Certificate of Calibration Conformance included in manual.
- Manual

### Product Options

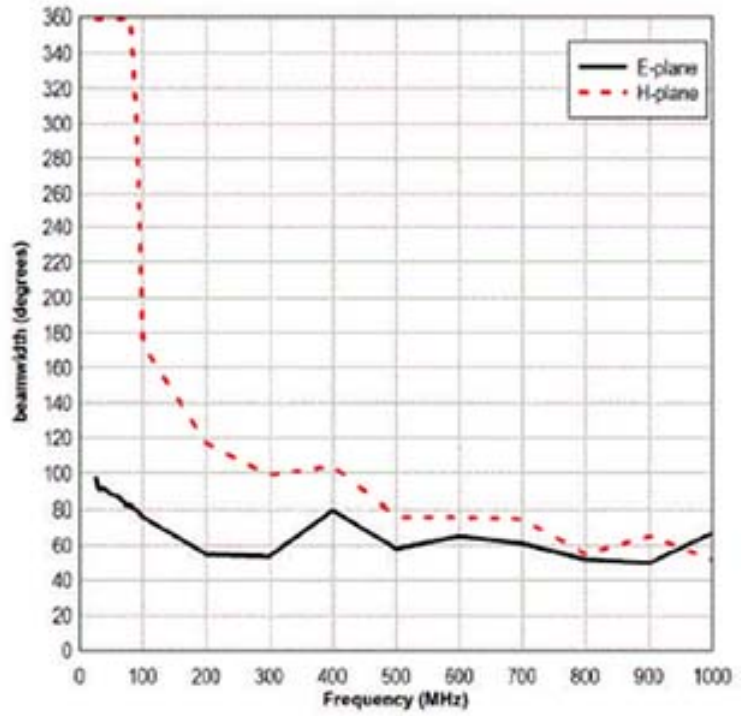
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- ETS-Lindgren Non-metallic, Non-reflective Tripods
- Support Rod
- Antenna Mount with Insert Drilled to Accept ETS-Lindgren or Other Tripod with Standard 1/4 in x 20 Threads

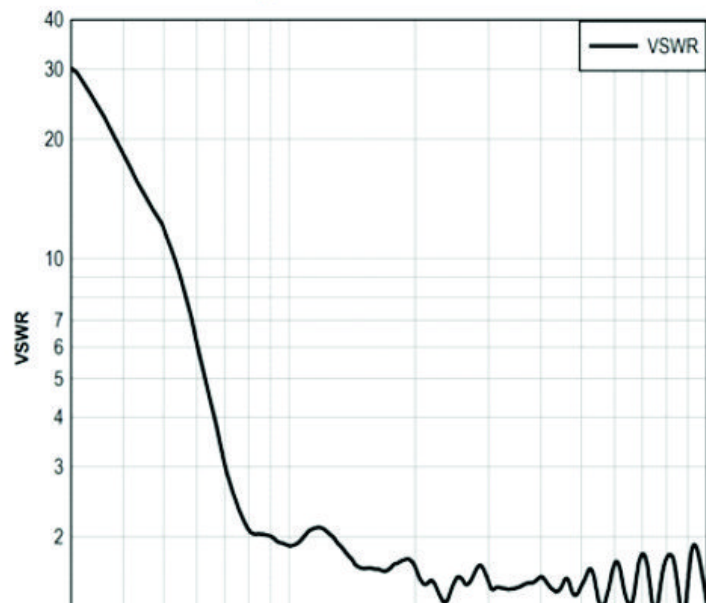
**3143B BiConiLog  
Antenna Factor  
and Gain  
Typical Performance**

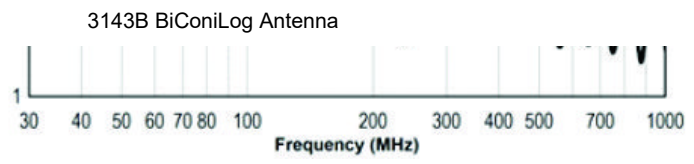


**3143B BiConiLog  
Antenna  
Beamwidth  
Typical Performance**

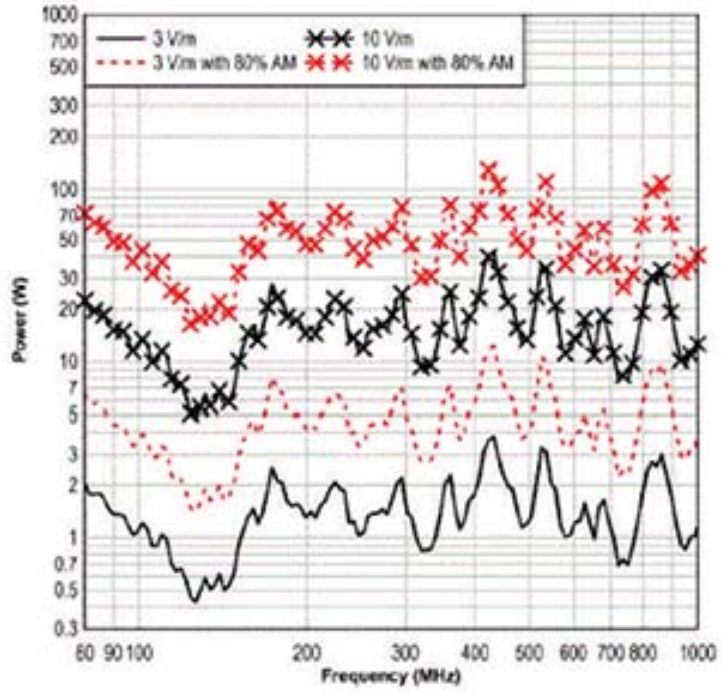


**3143B BiConiLog  
Antenna  
VSWR  
Typical Performance**

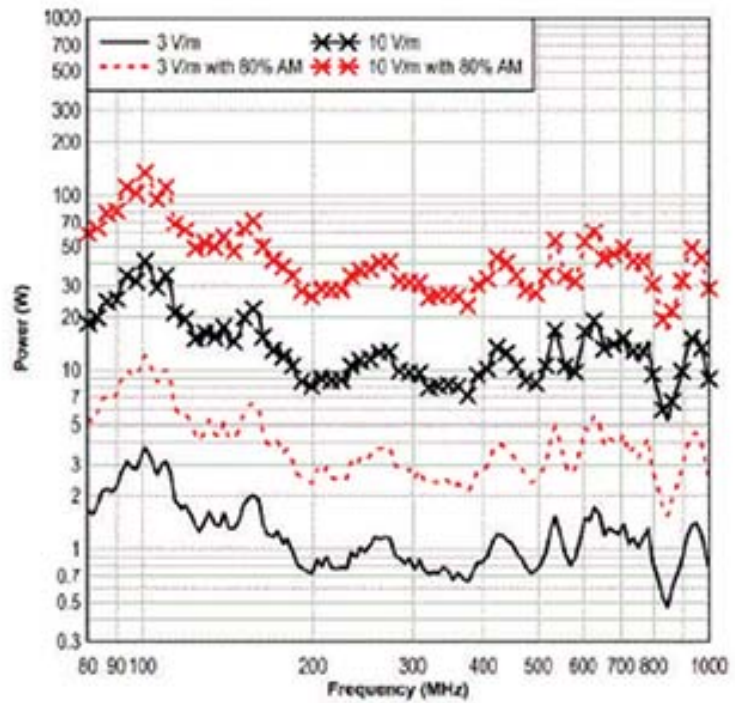




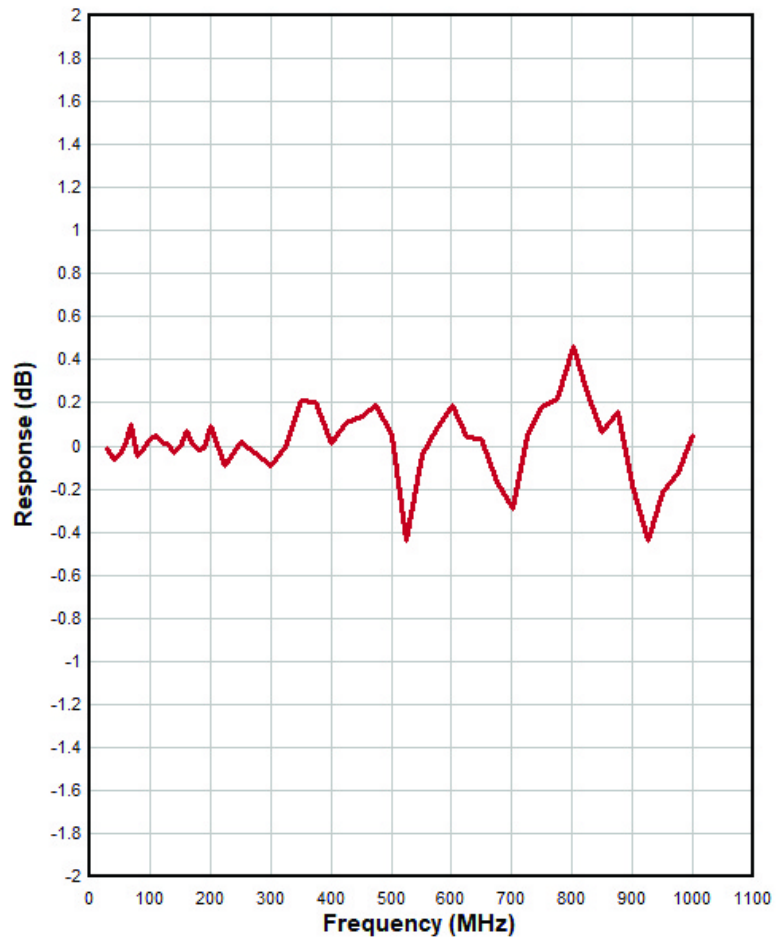
**3143B BiConiLog  
Antenna  
Typical Average  
Power Required  
in Horizontal Polarization  
at 3 m**



**3143B BiConiLog  
Antenna  
Typical Average  
Power Required  
in Vertical Polarization  
at 3 m**



# 3143B BiConiLog Antenna Symmetry



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