

3140B Hybrid Log Periodic and Bowtie (BiConiLog)



ETS-Lindgren's Model 3140B BiConiLog is one in a series of hybrid antennas designed for broadband EMC radiated immunity (RI) measurements. The model 3140B BiConiLog features a patented T-Bow Tie element design that significantly improves low frequency performance, compared to conventional biconical or other hybrid antennas. When setting up the model 3140B, the T-Bow Tie elements are easily attached/detached with hand tightened screw knobs. Once assembled, the antenna is self-standing when placed balun end down on the ground plane. A tough powder coat finish protects the antenna.

The Model 3140B BiConiLog is not designed to be used for RE (radiated emissions) measurements. For RE applications, ETS-Lindgren recommends the model 3142E Biconilog.

Key Features

- 26 MHz to 3 GHz Frequency Range
- Two Year Warranty
- Fits Compact Chambers
- Tough Powder Coat Finish
- Avg. 2:1 VSWR above 80 MHz
- Best EMC RI Performance from 26 MHz to 80 MHz ≤ 300 W to generate 10 V/m above 30 MHz at 3m, 80% AM

Specifications

Physical Specifications

Height: 76.65 cm (30.18 in)

Length: 149.3 cm (58.78 in)

Width: 161.5 cm (63.58 in)

Weight: 10 kg (22.05 lb)

Electrical Specifications

Frequency Minimum: 26 MHz

Frequency Maximum: 3 GHz

Connectors: Type N

Impedance (Nominal): 50

Maximum Continuous Power: 1 kW

Pattern Type: Directional

Peak Power: 1.3 kW

Polarization: Linear

VSWR (Average): 2.0:1

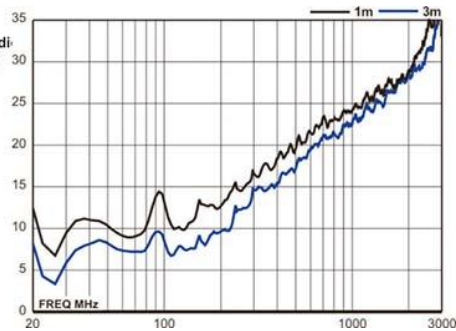
Product Options

- Model 7-TR positioner with offset boom

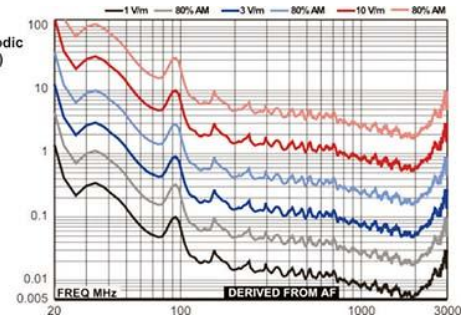
- Antenna and Antenna Elements
- Two Boom Adapters with Threaded Inserts
- Manual

Charts

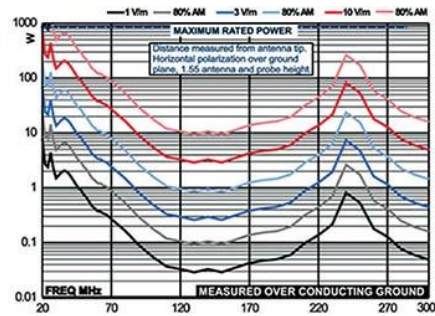
3140B Hybrid Log Periodic and Bowtie (BiConiLog) Antenna Factor



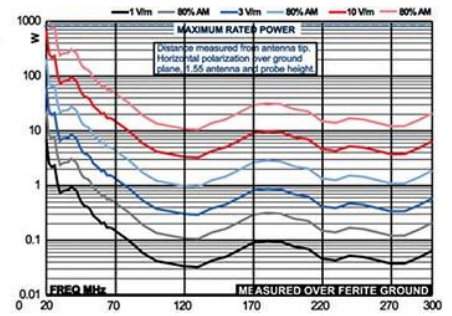
3140B Hybrid Log Periodic and Bowtie (BiConiLog) Antenna Forward Power at 1 m



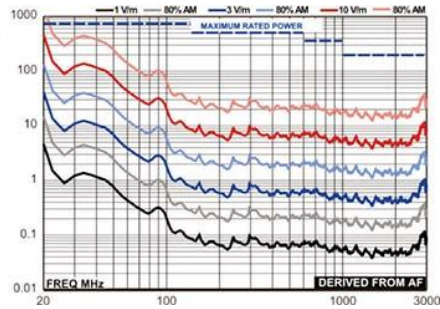
3140B Hybrid Log Periodic and Bowtie (BiConiLog) Antenna Forward Power at 3 m Measured Over Conducting Ground



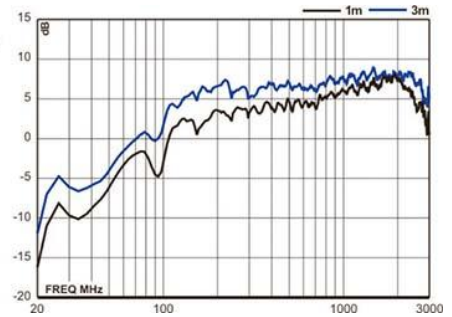
3140B Hybrid Log Periodic and Bowtie (BiConiLog) Antenna Forward Power at 3 m Measured Over Ferrite Ground



3140B Hybrid Log Periodic and Bowtie (BiConiLog) Antenna Forward Power at 3 m



3140B Hybrid Log Periodic and Bowtie (BiConiLog) Antenna Gain



3140B Hybrid Log Periodic and Bowtie (BiConiLog) Antenna VSWR

