

Features:

- 26 MHz - 3 GHz Frequency Range
- Immunity Testing:
-- IEC 61000-4-3
- Avg. 2:1 VSWR Above 80 MHz
- Fits Compact Chambers
- Tough Powder Coat Finish
- Two Year Warranty



ETS-Lindgren's EMC Model 3140B BiConiLog Antenna

ETS-Lindgren's EMC brand BiConiLog is a hybrid antenna designed for broadband EMC radiated immunity (RI) measurements. The antenna exhibits exceptional gain between 26 MHz and 80 MHz, requiring 300 W to generate 10 V/m above 30 MHz with 80% AM at a distance of 3 meters. Above 80 MHz, the antenna's VSWR is less than 2:1.

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 — convenient during mounting. A tough powder coat finish protects the antenna and adds to its appeal.

The Model 3140B BiConiLog is not designed to be used for radiated emissions (RE) measurements. For this application ETS-Lindgren recommends the Model 3142C.

Standard Configuration

- Antenna Elements
- Balun
- Manual
- Two boom adapters with threaded inserts.

Options

- ETS-Lindgren offers several non-metallic, non-reflective tripods for use at EMC test sites.

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Electrical Specifications

MODEL	FREQUENCY RANGE	VSWR RATIO (AVG)	MAXIMUM CONTINUOUS POWER	IMPEDANCE (NOMINAL)	CONNECTORS
3140B	26 MHz – 150 MHz	2:1	750 W	50 Ω	Type N female (1)
	150 MHz – 600 MHz	2:1	500 W	50 Ω	
	600 MHz – 1 GHz	2:1	365 W	50 Ω	
	1 GHz – 3 GHz	2:1	200 W	50 Ω	

Physical Specifications

MODEL	WIDTH	DEPTH	HEIGHT	WEIGHT
3140B	161.5 cm 63.6 in	149.3 cm 58.78 in	76.65 cm 30.18 in	10.0 kg 22.0 lb

Easy to Assemble Design



T-Bow-Tie elements can be attached or removed quickly using easy-to-use hand-tightened knobs.

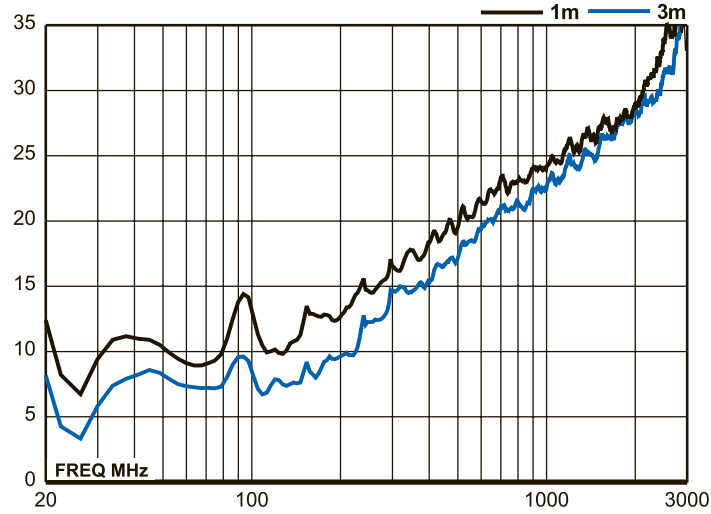


Built-in legs on the balun box allow the 3140B to stand self-supported on the ground plane while the test setup is being prepared.

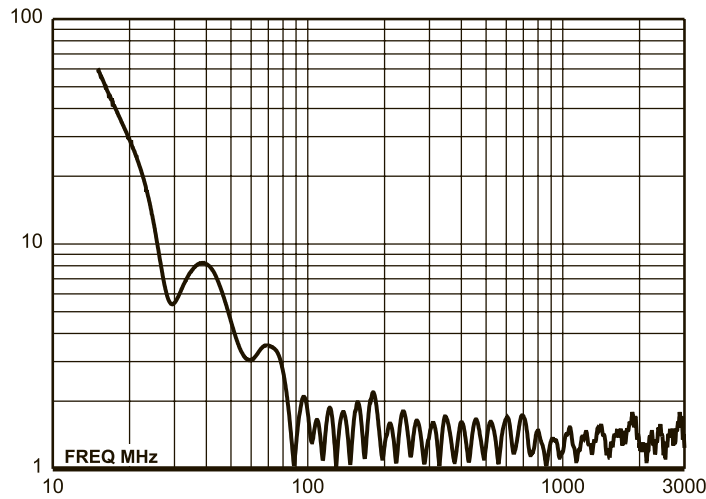


Self-Supporting Legs

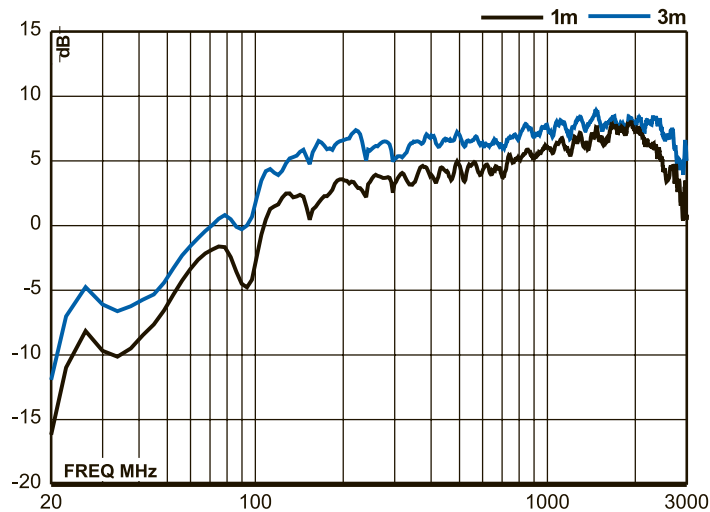
Model 3140B Antenna Factor



Model 3140B VSWR



Model 3140B Gain



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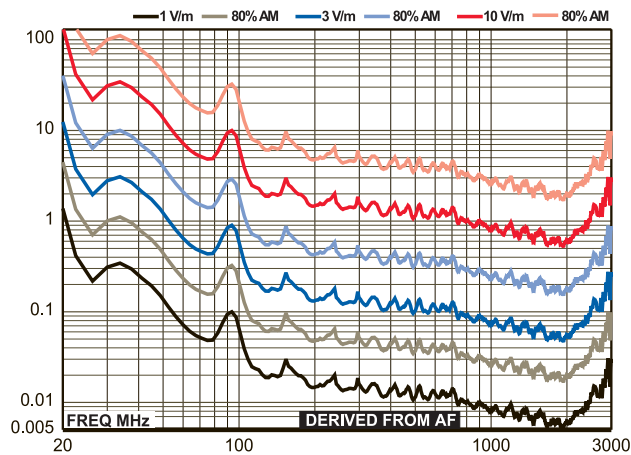
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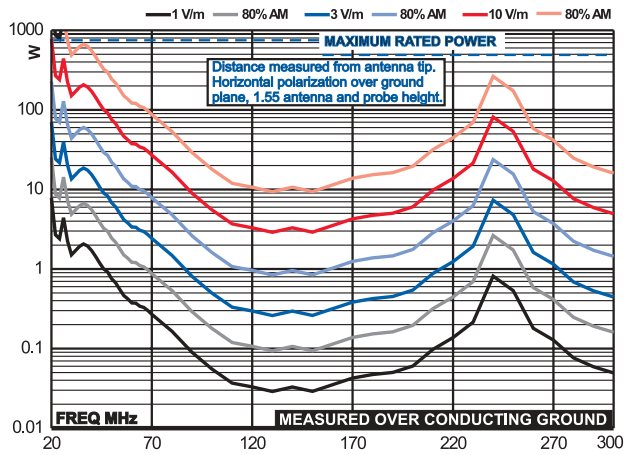
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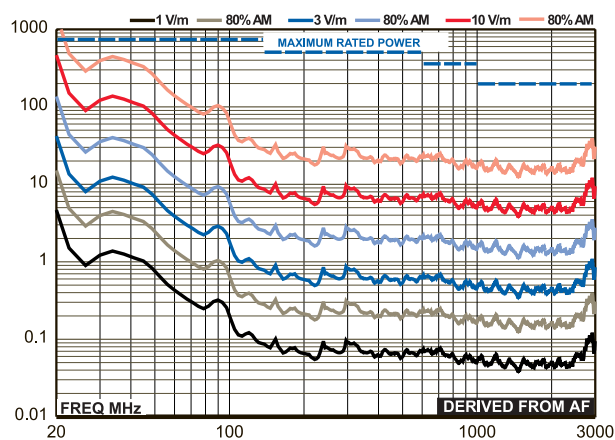
Model 3140B Forward Power @ 1 m



Model 3140B Forward Power @ 3 m



Model 3140B Forward Power @ 3 m



Model 3140B Forward Power @ 3 m

