

ANTENNA MODEL 3121D



MODEL 3121D

- Frequency Range 30 MHz to 1 GHz
- FCC Design
- Low VSWR and Balun Loss
- Individually Calibrated
- Appropriate for Site Attenuation Measurements
- Both Stinger and EMC0 Mounts Included

ETS-Lindgren's Model 3121D Tuned Dipole Antenna's behavior approaches to the theoretically perfect half-wavelength resonant dipole. ETS-Lindgren has made select physical improvements to the original design assuring optimal performance and years of trouble-free use. The 3121D offers an accurate standard for precise EMI measurements including FCC and EN compliance testing, site attenuation as described in EN55022 and ANSI C63.4, and antenna calibration as described in ANSI C63.5.

The model 3121D covers a frequency range of 30 MHz to 1 GHz and its behavior approaches to the theoretically perfect loss-less half-wavelength resonant dipole.

Each 3121D Dipole is individually calibrated at 10 meters per ANSI C63.5, using the preferred three antenna method. All measurement equipment used is NIST traceable.

These measurements are made without the use of attenuators, so antenna factors are a true presentation of actual performance. A printout of the calibration data of each antenna is included with the Manual and is also archived. Individual calibration and actual antenna factors are preferred over typical or theoretical factors and provide confidence of test data.

FCC Design

ETS-Lindgren has incorporated contemporary materials, precision manufacturing and select improvements (such as Type N connectors for balun and cable connections) to the optimally matched, compensated balun design used by Willmar K. Roberts at the FCC laboratory. The result is a quality product that provides years of use.

Low VSWR and Balun Loss

The model 3121D has an average VSWR of less than 1.6: 1 and a balun loss of less than .5 dB throughout its frequency range of 30 MHz to 1 GHz. Appropriate for EMI Testing and Site Attenuation ETS-Lindgren's Tuned Dipole Antenna is suitable for both commercial and military EMI emissions and immunity testing. The model 3121D also can be used to perform site attenuation per EN55022 and ANSI C63.4.

Quality Construction Complete with Accessories

ETS-Lindgren's Tuned Dipole is constructed of lightweight corrosion resistant elements, providing years of trouble-free indoor and outdoor service. A clamp block, delrin support rod, and aluminum mounting base are included in the set. The aluminum mounting base accepts standard 1/4 in x 20 threads from an ETS-Lindgren Tripod or most other tripods. All components, including a tape measure, and ruler which shows corresponding frequency, are included in a shock-resistant carrying case.

Electrical Specifications

Model	Frequency	Connectors	Maximum Continuous Power
Balun 1	30 MHz to 60 MHz	Type N (f)	260 W
Balun 2	60 MHz to 140 MHz	Type N (f)	160 W
Balun 3	140 MHz to 400 MHz	Type N (f)	80 W
Balun 4	400 MHz to 1 GHz	Type N (f)	50 W

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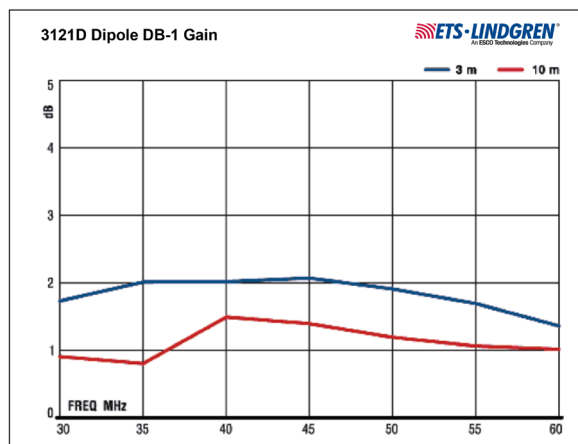
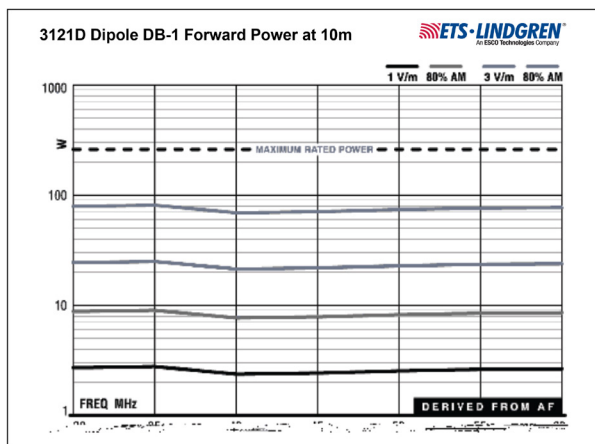
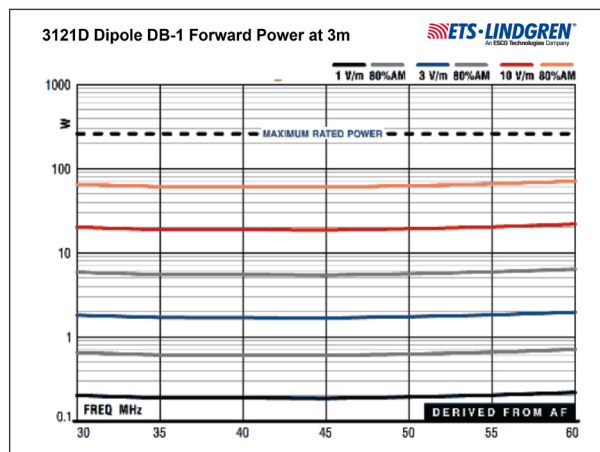
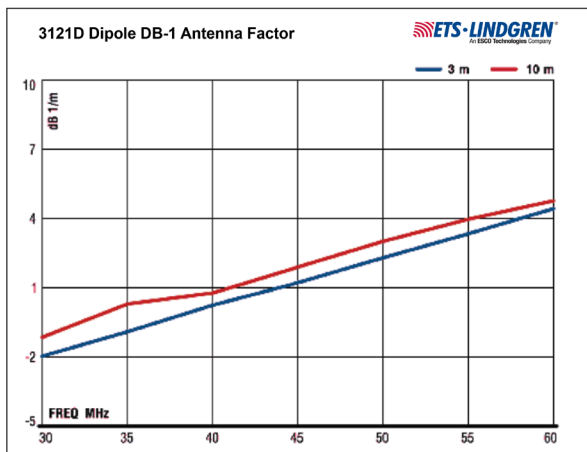
Electrical Specifications

Model	Frequency
Impedance (Nominal)	50
VSWR	<1.6:1
Pattern Type	Omnidirectional
Polarization	Linear
Connector	Type N connector

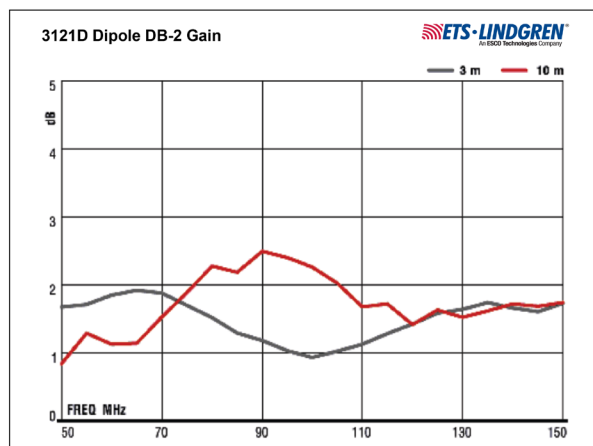
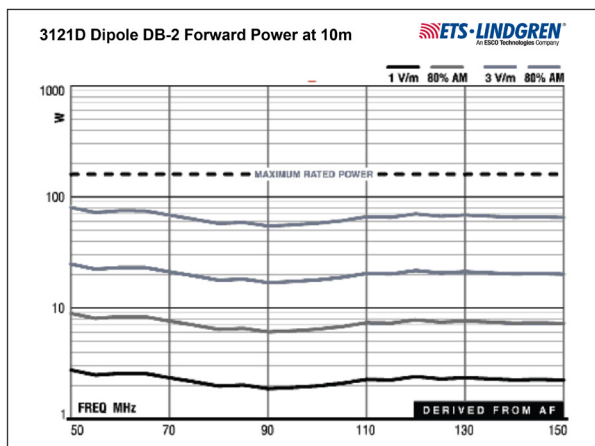
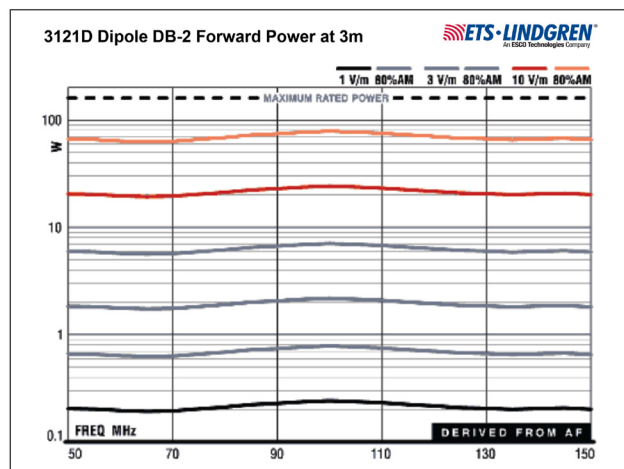
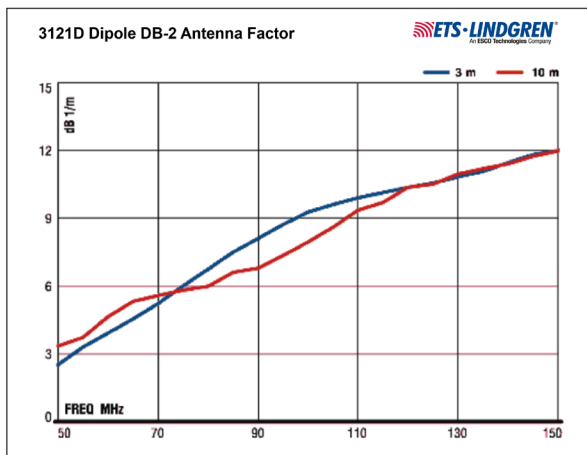
Physical Specifications

Model	DB-1	DB-2	DB-3	DB-4
Length	68.25 cm (26.87 in)	55.88 cm (22 in)	52.07 cm (20.5 in)	48.89 cm (19.25 in)
Minimum Width	41.91 cm (16.5 in)	41.91 cm (16.5 in)	35.56 cm (14 in)	13.97 cm (5.5 in)
Maximum Width	426.72 cm (168 in)	327.66 cm (129 in)	124.46 cm (49 in)	45.72 cm (18 in)
Weight	1.07 kg (2.37 lb)	0.76 kg (1.69 lb)	0.68 kg (1.5 lb)	0.39 kg (0.87 lb)

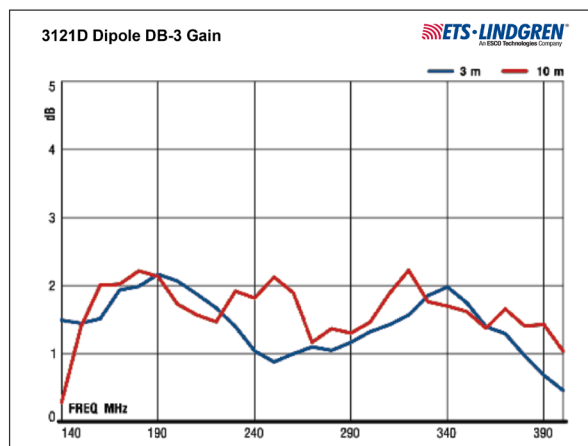
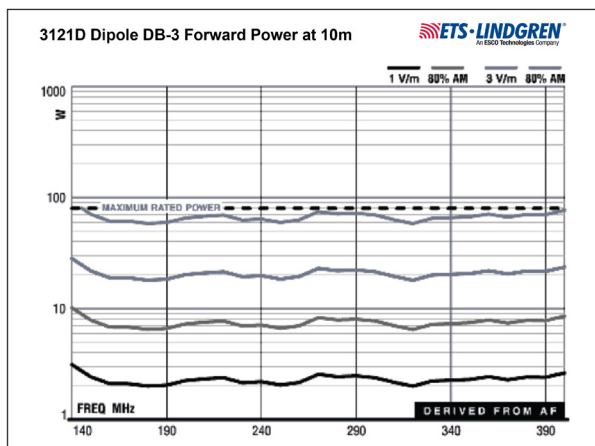
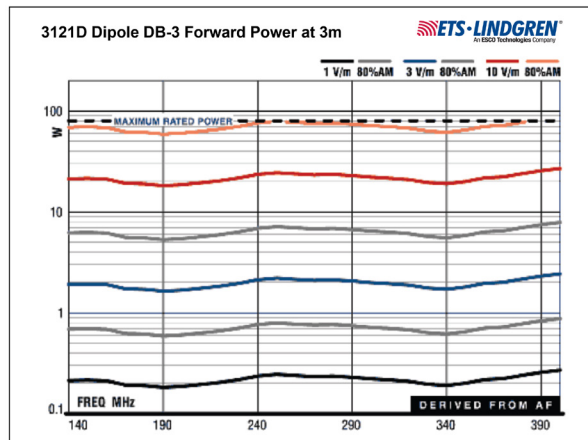
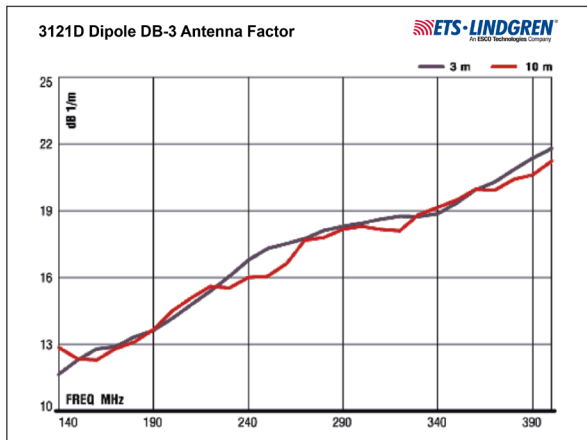
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