

# ANTENNA MODEL 3180D



## MODEL 3180D

- Cage Elements: 500 MHz to 1 GHz
- Cone Elements: 30 MHz to 1 GHz
- Omni-directional Pattern Ideal for:
  - Chamber Characterization
  - Broadband Spectrum Monitoring
  - Field Measurements
  - Flexible Mounting

**ETS-Lindgren's Model 3180D Broadband Mini-Bicon Antenna** has been designed for optimal performance across the frequency range of 30 MHz to 1 GHz (cage elements) and 30 MHz to 3 GHz (cone elements). The 3180D's uniquely designed elements provide a omnidirectional pattern.

The model 3180D is ideal for the free space NSA (FSNSA) test for fully anechoic rooms. Its small size allows for harmonic monitoring when testing per the IEC 61000-4-3.

### Frequency Range

The Model 3180C covers the traditional frequency range for EMC measurements and covers all of the VHF and UHF bands, making it ideal for spectrum monitoring of FM, TV, and some cellular phones. With the small cone elements in place, the 3180C can be used up to 3 GHz.

### Flexible Mounting System

The Model 3180C antenna includes both an EMCO block mount and a rear "stinger" mount for flexible mounting.

### Radiation Pattern

The Model 3180C has been designed to have a radiation pattern that is omnidirectional.

#### Electrical Specifications

Model	Frequency Range	VSWR Ratio (Avg.)	Maximum Continuous Power
3180D (Cage Elements)	500 MHz to 1 GHz	~3:1	250 mW
3180D (Cone Elements)	30 MHz to 1 GHz	~3:1	250 mW

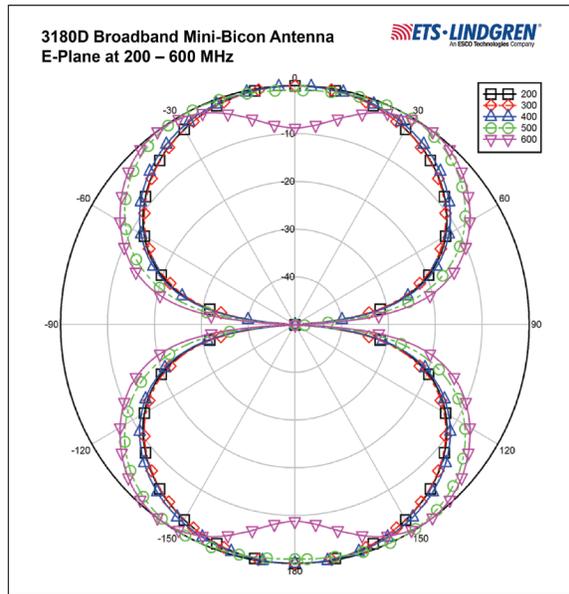
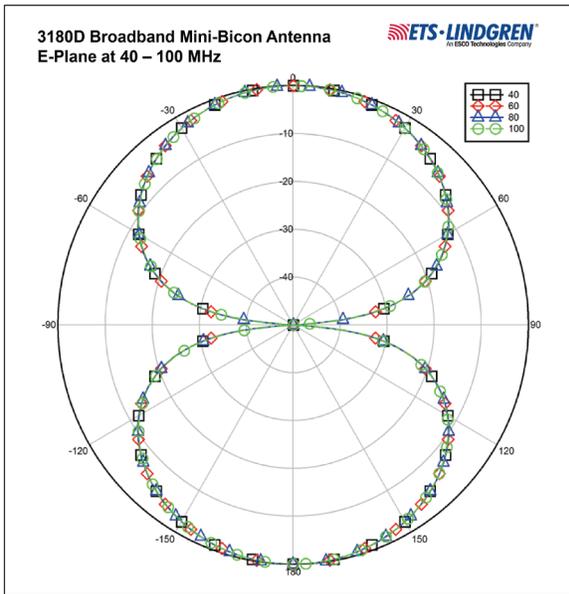
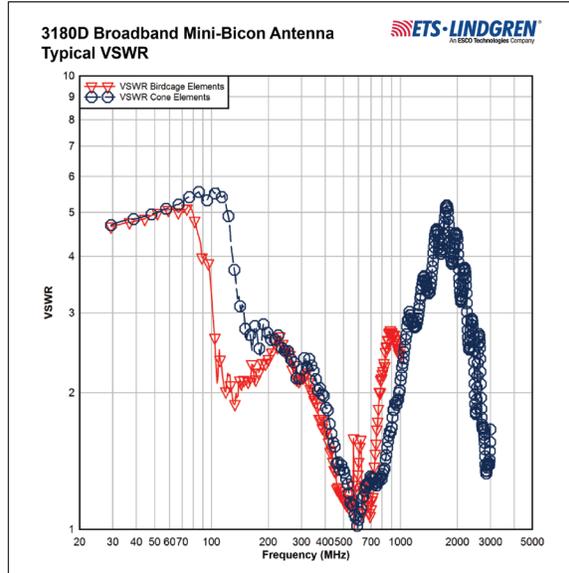
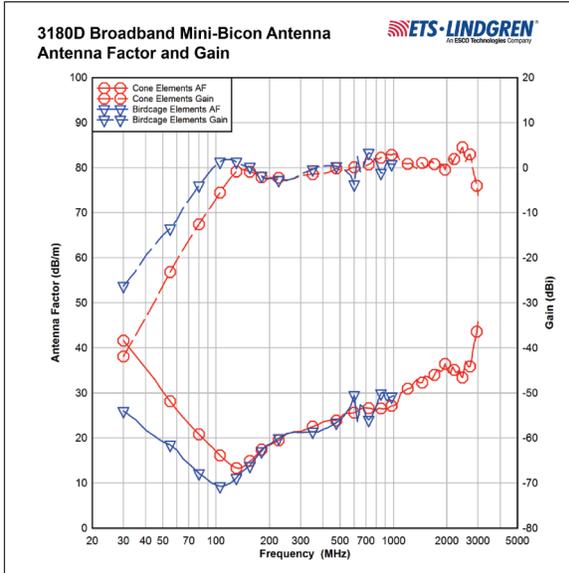
#### Electrical Specifications

Model	Impedance (Nominal)	Connectors	Pattern Type	Polarization
3180D (Cage Elements)	50	Type N (f)	Omnidirectional	Linear
3180D (Cone Elements)	50	Type N (f)	Omnidirectional	Linear

#### Physical Specifications

Model	Width (Element, tiptotip)	Length	Diameter
3180D (Cage Elements)	64.9 cm (25.5 in)	72.4 cm (28.5 in)	40.0 cm (15.7 in)
3180D (Cone Elements)	37.5 cm (14.8 in)	71.71 cm (28.2 in)	39.1 cm (15.4 in)

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