

ANTENNA MODEL 3110C



MODEL 3110C

- **Frequency Range 30 MHz to 300 MHz**
- **Compact Size for Use in Limited Space**
- **Unique Element Design Improves Performance**
- **Improved Balun Design for Increased Efficiency**
- **Flexible Mounting**
- **Excellent RF Symmetry**

ETS-Lindgren's 3110C Biconical Antenna combine several unique features to achieve high levels of performance. The balun, feedline, and element cage design give the model 3110C response curves that are almost linear, making it ideal for swept measurements. The antenna's insensitivity to orientation in the vertical plane helps eliminate any unnoticed or unrecorded change in orientation as the cause for a change in test results.

To achieve this kind of performance, the balun is designed using an unbalanced-to-balanced transformer. This results in very even current transformation. Ferrites are also placed along the feedlines, reducing common mode current that can interfere with the antenna pattern in the vertically polarized measurements.

The 3110C is also easy to mount, and now features a stinger mount with square collar. This collar allows for easy polarization alignment when using an ETS-Lindgren mast.

Common applications for the model 3110C include measurements to MIL-STD specifications, ANSI C63.4, FCC-18 and EN 55022 emissions testing.

Improved Balun Design

With a balun constructed from a microtransformer, the 3110C has a perfect impedance match and balance between 50 Ω and 200 Ω (the impedance of the biconical elements), for the whole frequency range of the antenna.

Compact Size

Because of their compact size, the 3110C Biconical Antenna is ideal for anechoic chambers and shielded enclosures.

Quality Construction

Biconical elements are constructed of lightweight corrosion resistant aluminum, providing years of trouble-free indoor and outdoor service.

Technical Specifications

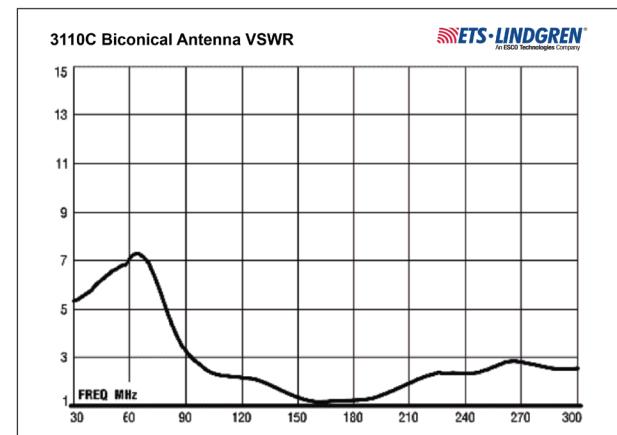
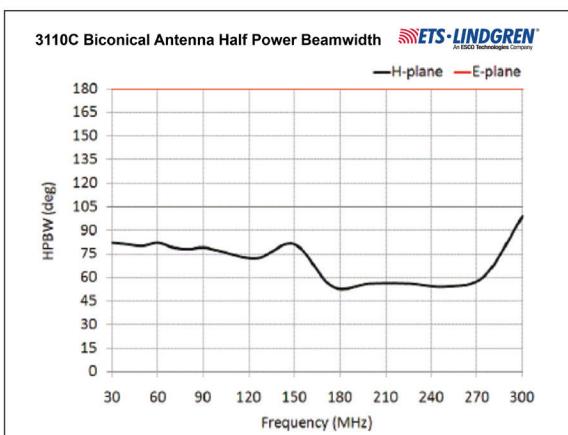
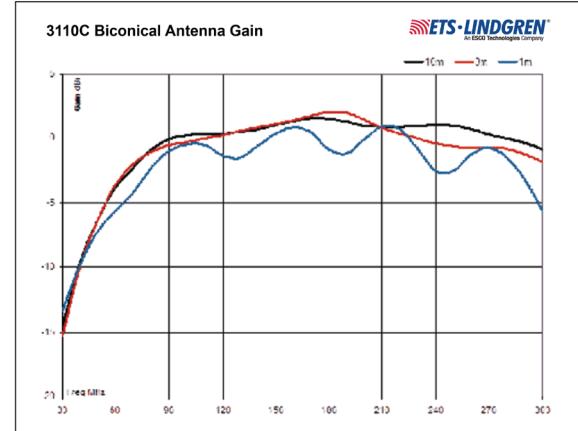
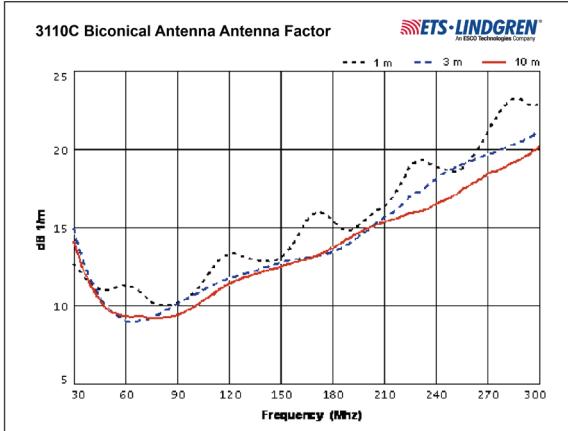
Electrical

Frequency Minimum	30 MHz
Frequency Maximum	300 MHz
Connectors	Type N Female
Impedance (Nominal)	50
Maximum Continuous Power	250 mW
VSWR (Average)	<3:1 (from 100 MHz to 300 MHz)
Pattern Type	Omnidirectional
Polarization	Linear

Physical

Width	132.1 cm (52.0 in)
Depth	55.9 cm (22.0 in)
Diameter	52.0 cm (20.5 in)
Weight	2.7 kg (6.0 lb)

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