

# ANTENNA MODEL 3109



## MODEL 3109

- **Frequency Range**  
20 MHz to 300 MHz
- **Peak Power Handling Capability** Up to 2 kW
- **Unique Element Design Improves Performance**
- **Compact Size for Use in Limited Space**
- **Improved Balun Design for Increased Efficiency**
- **Quality Construction for Trouble-Free Service**

**ETS-Lindgren's Model 3109 Biconical Antenna** uses a modified Guanella balun for impedance transformation and matching. The Model 3109 provides a broad frequency range and because it is constructed of much heavier materials, it has a maximum continuous input power up to 1 kW, with a peak power handling capability up to 2 kW. While this antenna typically has a high VSWR at frequencies below 70 MHz, it is still capable of generating a high field strength with acceptable input power in this region of the band. The optional extended elements markedly improve its performance in this region. This antenna is ideal for IEC 61000-4-3 testing.

ETS-Lindgren is the only manufacturer to offer optional extended elements. These elements are twice as long as standard elements and enable users to generate high fields at low frequencies with less than 25% of the power usually required.

## Technical Specifications

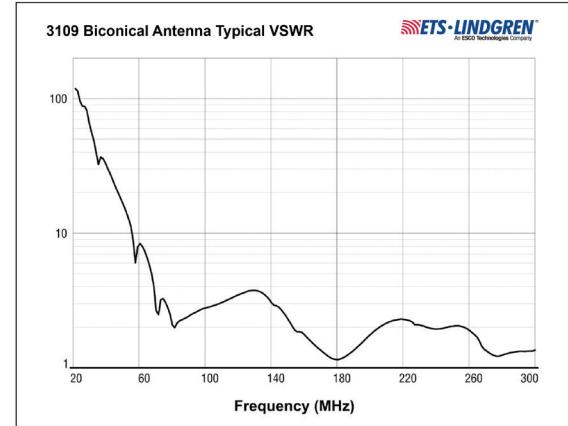
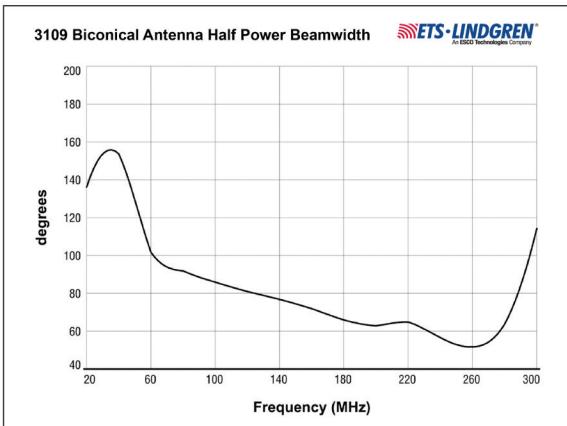
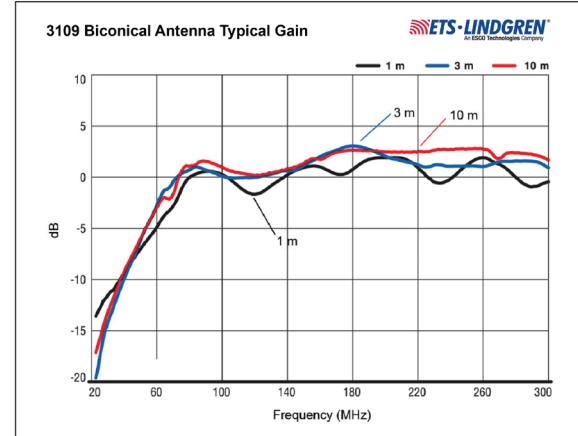
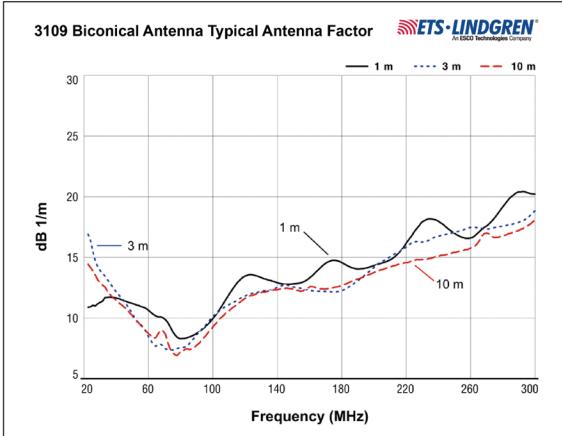
### Electrical

Frequency Minimum	20 MHz
Frequency Maximum	300 MHz
Connectors	Type N (f)
Impedance (Nominal)	50
Maximum Continuous Power	1 kW (N); 1.5 kW (7/16 DIN)
VSWR (Average)	2.5:1 (from 80 MHz to 300 MHz)
Peak Power	2 kW
Pattern Type	Omnidirectional
Polarization	Linear

### Physical

Width (includes elements and balun)	131.1 cm (51.6 in)
Diameter	51.1 cm (20.1 in)
Weight (includes elements and balun)	2.6 kg (5.8 lb)

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