

## 3102 CONICAL LOG SPIRAL ANTENNA

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ETS-Lindgren's Model 3102 Conical Log Spiral is made with spiral windings of semi-rigid coaxial cable attached to the outside of a fiberglass cone. The outside windings improve heat dissipation. This cone is attached to a delrin rod equipped with an aluminum base.

Once used exclusively for MIL-STD and SAE testing, conical log spiral antennas are effective for other types of measurements too. For example they can be used for close-in "quick-looks" to find the spectral characteristics of RF emissions. For immunity testing, conical log spirals generate reasonable field strengths

with modest power input. By placing conical log spiral antennas in a vertical position with respect to the ground plane, they can also be used as omnidirectional, horizontally polarized antennas for electromagnetic site surveys. The Model 3102 Conical Log Spiral is also used as a communication antenna in support of over-the-air wireless device testing.

The antenna mount base accepts standard 1/4 in x 20 threads from a tripod.

### Key Features

- Two Year Warranty
- Compact Size
- Extremely Low VSWR
- Circular Polarization
- Individually Calibrated

### Specifications

#### Electrical Specifications

**Frequency Minimum:** 1 GHz  
**Frequency Maximum:** 10 GHz  
**Connectors:** Type N (f)  
**Impedance (Nominal):** 50  $\Omega$   
**Maximum Continuous Power:** 50 W  
**VSWR:** 1.6:1  
**Peak Power:** 100 W  
**Pattern Type:** Directional  
**Polarization:** Circular

#### Physical Specifications

**Depth:** 38.1 cm (15.00 in)  
**Weight:** 3.6 kg (7.94 lb)

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 An ESCO Technologies Company

## Additional Specifications

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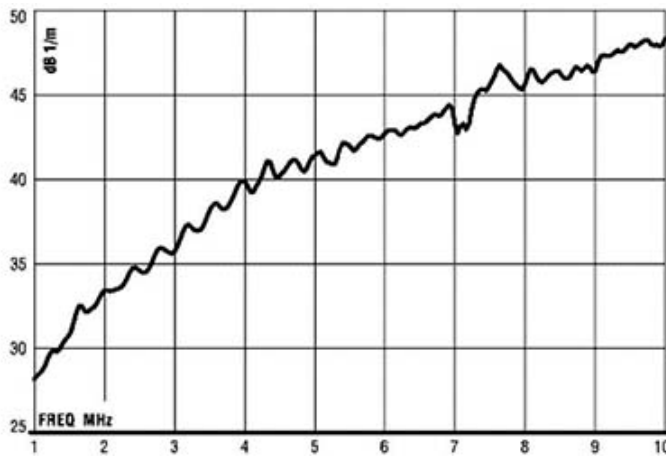
- Antenna with Support Rod
- Left-hand Circular Polarization
- Base Drilled to Accept ETS-Lindgren or Other Tripod Mount with Standard 1/4 in x 20 Threads
- Individually Calibrated at 1 m per SAE ARP 958
- Actual Factors and a Signed Certificate of Calibration Conformance Provided

## Product Options

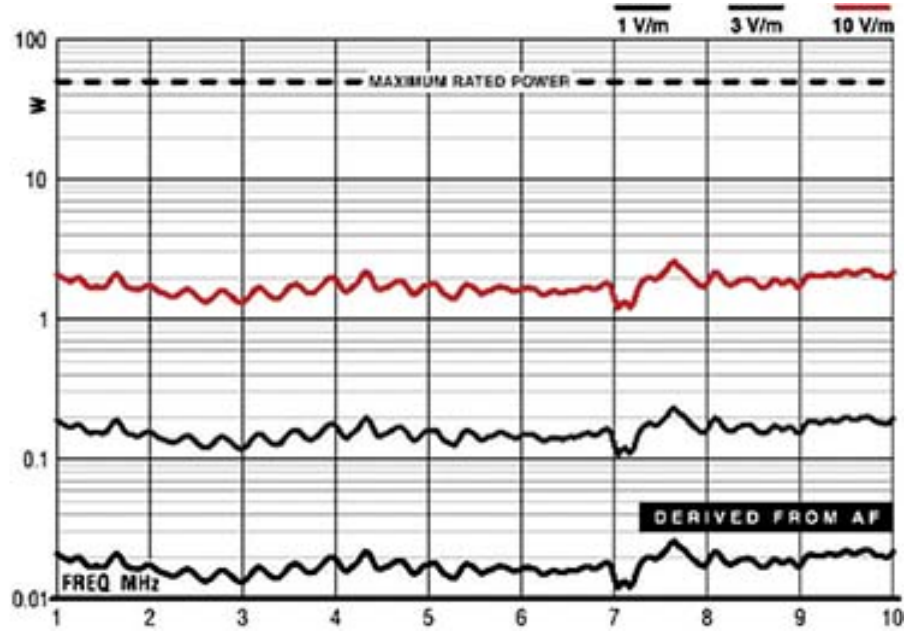
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Product Charts

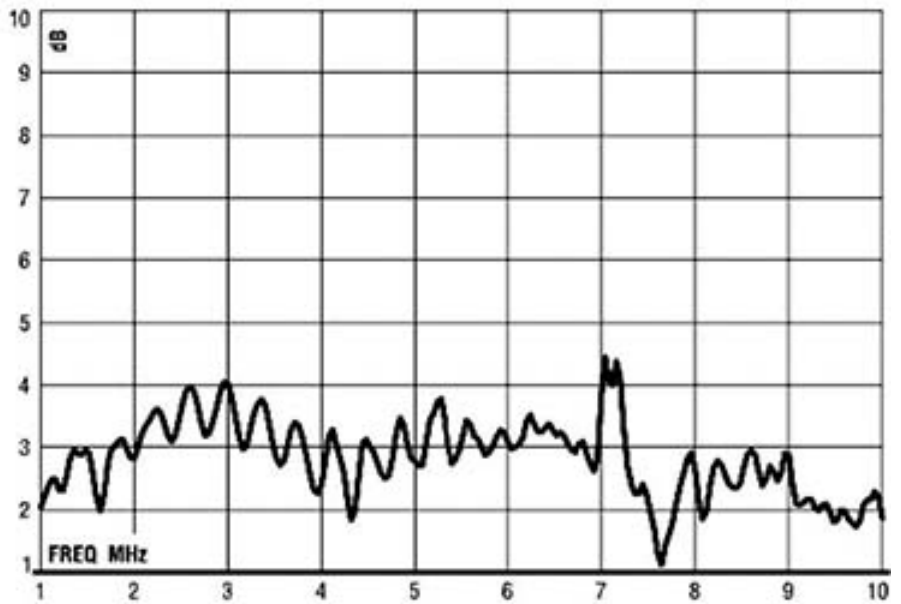
Model 3102  
Conical Log Spiral Antenna  
Antenna Factor



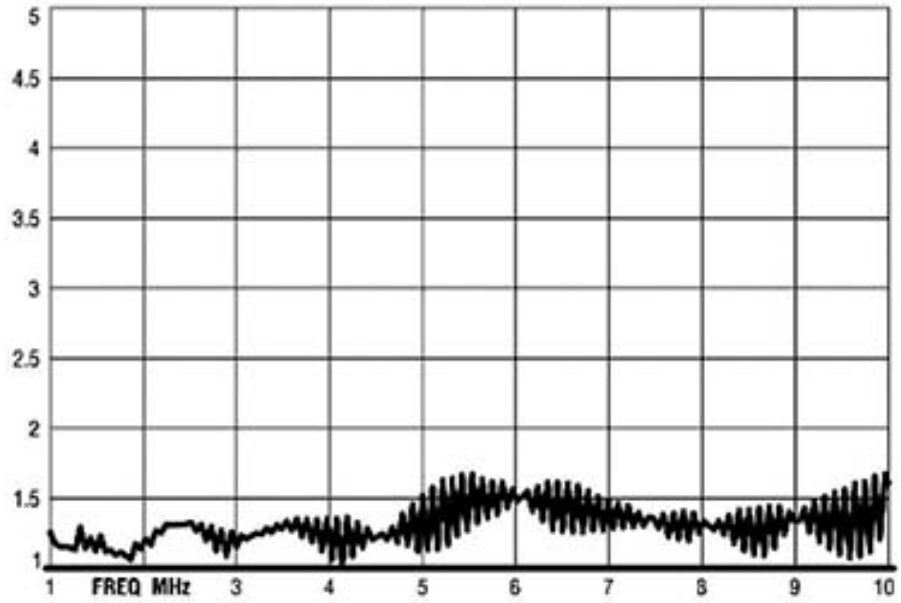
Model 3102  
Conical Log Spiral Antenna  
Forward Power at 1 m



Model 3102  
Conical Log Spiral Antenna  
Gain



Model 3102  
Conical Log Spiral Antenna  
VSWR



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