3102 CONICAL LOG SPIRAL ANTENNA

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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 Ω
Maximum Continuous Power: 50 W
VSWR: 1.6:1
Peak Power: 100 W
Pattern Type: Directional
Polarization: Circular

Physical Specifications

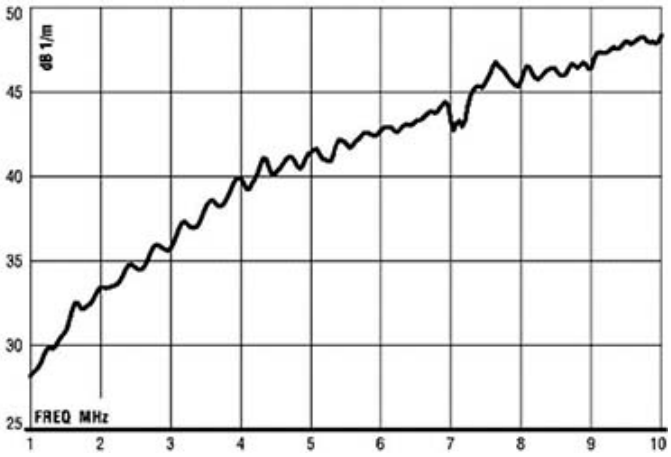
Depth: 38.1 cm (15.00 in)
Weight: 3.6 kg (7.94 lb)

Other Specifications

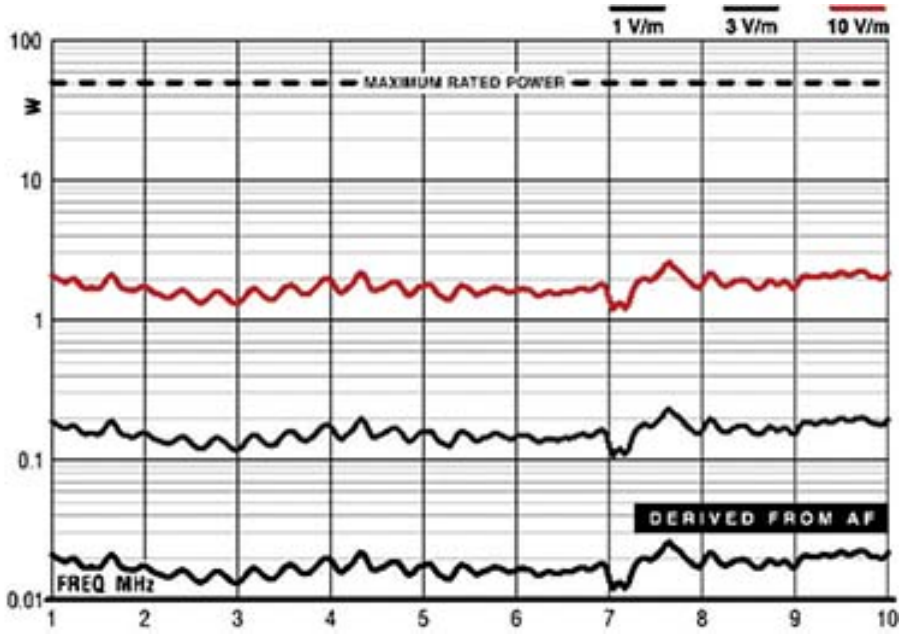
- Antenna with Support Rod
- Left-hand Circular Polarization
- Base Drilled to Accept ETS-Lindgren or Other Tripod Mount with Standard 1/4 in x 20 Threads
- Individually Calibrated at 1 m per SAE ARP 958
- Actual Factors and a Signed Certificate of Calibration Conformance Provided

Product Charts

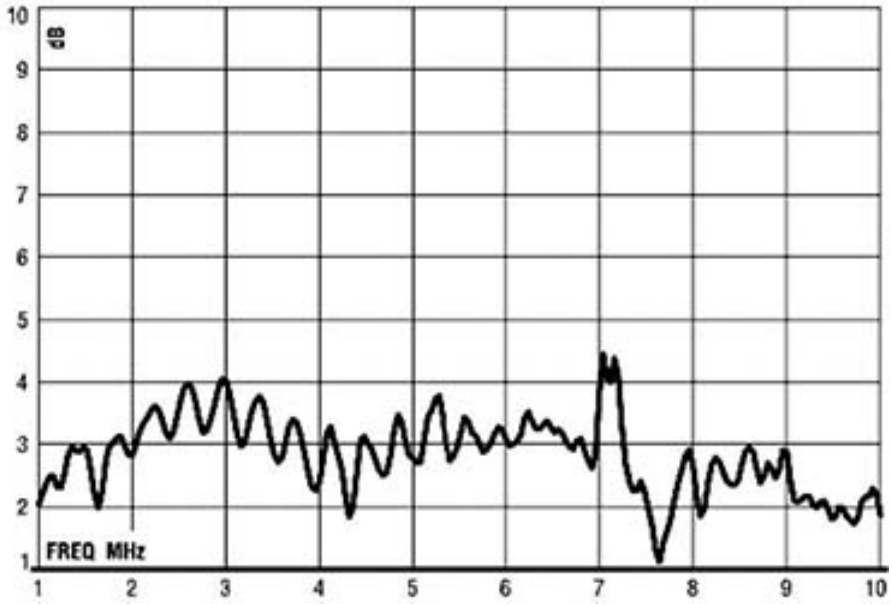
Model 3102
Conical Log Spiral Antenna
Antenna Factor



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