

Features

Broadband - 300 MHz - 1000 MHz

Transmitting and Receiving Applications

Individual Calibration

Three Year Warranty



Description

The Power Log Periodic antenna model ALP-100 is a broadband antenna for use in the 300-1000 MHz frequency band.

The ALP-100 antenna can be used for both emissions and high power immunity testing. For immunity measurement the ALP-100 can handle up to 500 Watts at the input. This antenna has low VSWR with good beamwidth pattern.

The antenna is mounted from the center using the attached pivoting fixture. This fixture allows quick polarization changes from vertical to horizontal. In addition it can be used to mount the antenna to a tripod or antenna mast.

This antenna is supplied with individual calibration data at 3 meters per ANSI C63.5 standard. However, Com-Power can calibrate the antenna to SAE ARP 958 at 1 meter distance at customer request.

Application

The ALP-100 Log Periodic antenna is used for emission and immunity testing to verify compliance for FCC, CE and MIL-STD 461 specifications.

Log Periodic antennas allow quick sweep measurements without a band break. This feature makes it convenient to use the Log Periodic antenna with an automated emissions or immunity measurement system. The size of the antenna also allows it to be used in a small area like a shield room.

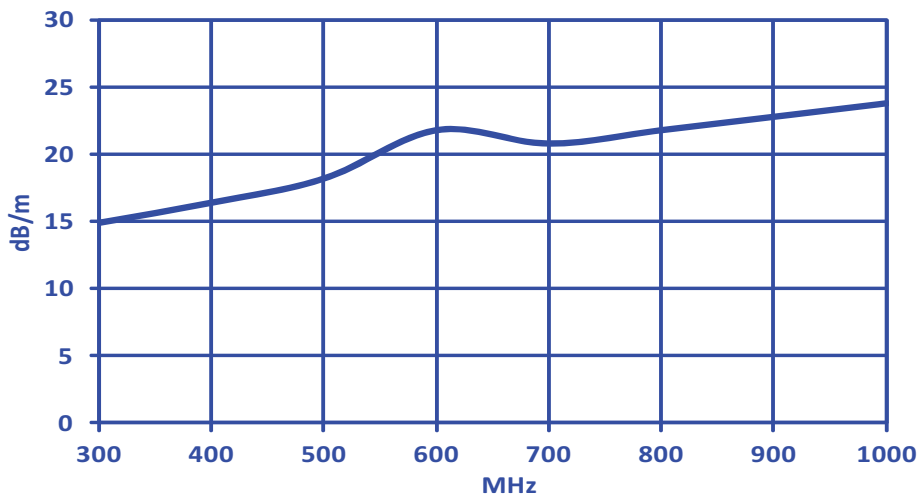
The Log Periodic antenna was designed to get a smooth response curve for the antenna factors to minimize measurement errors.

The calibration data provided with each antenna is used to calculate field strength measured for the selected frequency. The antenna factor (dB/m) for the selected frequency is added to the measured output (dBV) displayed by the EMI meter to obtain field strength (dBV/m).

Specifications

Frequency Range:	300 MHz - 1000 MHz
Continuous input power (CW):	500 Watts
Average Gain:	6 dBi
Average VSWR:	1.2: 1
Polarization:	Linear
Impedance:	50 Ω
Connector:	N type (f)
Width:	29 in / 75 cm
Length:	29 in / 75 cm
Weight:	5 lb / 2.2 kg

Typical Antenna Factor:



All values are typical, unless specified.
All specifications are subject of change without notice.