

Features

Frequency Range: 300 MHz to 1 GHz

Part of the ANK series antenna kits

Compact and light weight

Transmit or receive capability

Three year warranty



Description

The Mini Log Periodic antenna model ALM-100 is a broadband antenna for use in the 300-1000 MHz frequency band. This antenna can be used for EMC emissions or immunity measurements. It is smaller and lighter compared to the AL-100 Log Periodic antenna, for ease of transport and storage. The ALM-100 antenna is part of the Com-Power ANK series antenna kits.

Each ALM-100 antenna is individually calibrated before shipment. This maximizes measurement accuracy. The ALM-100 can transmit up to 50W of continuous power for transmit applications.

This antenna is mounted from the center using the attached mounting adapter. The adapter has pivoting joint that allows the antenna to be rotated to vertical or horizontal polarizations with ease. The bottom of the adapter has as a 1/4 inch x 20 thread hole. This enables the antenna to be attached to the Com-Power AT-120 or AT-110 antenna tripods. These tripods are specially constructed using mostly wood or plastic material to minimize signal reflections.

Application

The ALM-100 Log Periodic Mini antenna can be used for emission and immunity testing to verify compliance for both commercial and military EMC specifications.

Because the ALM-100 is a broadband antenna, it can be used for quick sweep measurements. The compact size of the antenna also allows its use in smaller shielded rooms, testing shielding effectiveness of small enclosures and off-site EMC measurement applications. Carrying case is included when you purchase an ANK series antenna kit.

The ALM-100 Mini Log Periodic antenna was designed to get a smooth response curve for the antenna factors to minimize measurement errors.

The individual calibration data includes antenna factor. These factors are used to calculate field strength for the selected frequency. The antenna factor (dB/m) for the selected frequency is added to the measured output (dBV) displayed by the receiver to obtain field strength (dBV/m).

Specifications

Antenna Type	Log Periodic
Frequency Range	300 to 1 GHz
Antenna Factor	15 to 22 dB/m
VSWR	2.5:1 (average)
Impedance	50 ohms
Power Handling	50 Watts CW
Overall Length	25.25 inches (61.4 cm)
Max. Width (elements)	21.5 inches (55.8 cm)
Connector Type	N-type (female)
Weight	2 lbs. (0.9 kg)

All values are typical values unless otherwise specified.
Specifications are subject to change without notice.

Antenna Factors (typical)

