Dinesh Micro Waves & Electronics

HYBRID LOG PERIODIC ANTENNA

Ultra Wide Range The Hybrid Log Periodic antenna offers unequaled performance over the ultra wide frequency range of 26 MHz to 1 GHz for EMC immunity and emissions measurements. Significant time savings can be realized while testing to the various European, North American, and Asian standards because you are able to test continuously across the frequency range of interest. The product is designed for testing at 10 V/m with 80% AM modulation with minimum amplifier requirements.

Dual Mode Use Inherent in the design of the Hybrid Log Periodic antenna is its dual-mode use: radiated emissions and radiated immunity testing. With its ultra wide range,and it is an ideal replacement for at least two (possibly three) antennas.

System Features

- High gain
- Low VSWR
- Ultra broadband
- High capacity power input
- Quality construction
- Provides significantly improved performance over competing designs

Applications

- Immunity and Emission testing

Mechanical Specifications

- Size: 1.5 m x 1.5 m x 0.75 m (L x W x H)
- Weight: < 8.5 kg
- Finish: Aluminum
- RF: Connector N type female

Electrical Specifications

- Frequency Range: 26 MHz to 3 GHz
- Gain: 6 to 8 dBi typical
- VSWR: <2:1 average
- Polarization: Linear
- Power Handling: 1.0 kW maximum
- Feedpoint: Impedance 50 ohms (nominal)

Environmental Specifications

- Ambient Temperature Limits:
- Operating: 0° to +40° C
- Storage: -10° to +50° C
- Humidity: Up to 95% non-condensing

Manual Verticle Mast

The Dinesh Microwaves And Electroncis is designed for mounting antennas in EMC test environments and mast provides complete manual control of an antenna's height, tilt, and polarization, and supports antennas up to 18 kg in weight. The MVM is constructed of high-quality, non-conductive materials to withstand the rigors of daily use in both EMI and EMS testing.

Complete Positioning Control The Manual Vertical Mast's mounting arm adjusts from 97.5 cm to 167.5 cm and supports both small and large antennas on industry-standard mounting adapters. The mast's positioning gimbal allows manual control of antenna tilt to ± 10° and provides rotation of the antenna with indexing at 0° and 90° for quick and easy polarization changes. A locking pin secures the mounting arm in position.

High-Quality Construction The mast, base, and mounting arm are constructed of heavy-duty square fiberglass tubing with a protective water seal. The mast features four locking swivel casters for safety and ease of movement. The vertical mast can be easily disassembled for storage or transportation between test sites. The MVM is available in several models to meet your testing requirements.

The MVM-200R adjusts from 1 m to 2 m in height. Standard item.

The MVM-300R adjusts from 1 m to 3 m in height. Specialty item.

Features

- Robust mechanical design
- Complete control of height, tilt, and polarization
- Supports antennas up to 18 kg
- Four locking swivel casters

(Antenna mounted with its center of gravity located between 30 cm and 60 cm of mast.)

Application

- Antenna mounting in EMC test environments

Options

- Other mast heights available upon request

Mechanical Specifications

- Extended Height (200R): 200 cm (78.75 in.)
- Extended Height (300R): 300 cm (118 in.)
- Collapsed Height: 97.5 cm (38.5 in.)
- Base Width: 99 cm (39 in.)
- Base Length: 71 cm (28 in.)
- Weight (200R): 34 kg (75 lbs.)
- Weight (300R): 42 kg (93 lbs.)
- Construction: Fiberglass and plastic

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