

Log Periodic Antennas LPD FM Series

Product Description

The LPD FM series log periodic antenna is a directional wideband antenna, with low VSWR and without lateral lobes. It can be used in vertical or horizontal polarization due to its rear fixation. The antenna can be used between 84 and 120MHz.



LPD FM

Features/Benefits

- Receiving FM emissions in re-emission stations
- Directive emissions
- High 8 dBi gain, array possible
- Multi-assembly possible
- Easy to implement due to its low weight
- Easily transportable as the rods can be dismantled
- Individual packaging: 0.20 x 0.20 x 3.00m
- All the metallic parts of the antenna are connected to the ground, helping static load out-flow

Technical Specifications

Product Line	Antenna Radio
Product Type	Band II (VHF) FM Log Periodic Antennas
Frequency Range, MHz	85 - 108
Polarization	Horizontal, Vertical
Nominal Gain (Mid-band), dBd	8 dBi
Half Power Beamwidth E-Plane, degrees	60
Half Power Beamwidth H-Plane, degrees	95
Return Loss, dB	> 21
Input Connector	N socket on RG213 U Coaxial Cable
Power Rating, kW	0.6
Front to Back Ratio, dB	25 (typical)
Impedance, ohms	50
Weight, kg (lb)	8.7 (19.1)
Boom Length, cm (in)	280 (110)
Reflector Length, cm (in)	170 (67)
Mounting (Optional), mm (in)	4 insulating stays to increase wind resistance
Effective Area Front (full antenna), sq m (sq ft)	0.32 (3.50)
Wind Rating (no ice), km/h (mph)	200 (130)
Wind Rating (1cm Ice), km/h (mph)	120 (70)
Material - Support Pole / Mounting	Hot galvanized mounting interface
Material - Radiators	aluminium alloy
Coating	Thermo gloss paint
Colour	White
Shipping Weight, Kg (lb)	20 (44)
Shipping Dimension - Length, cm (in)	345 (135.8)
Shipping Dimension - Width, cm (in)	25 (9.8)
Shipping Dimension - Height, cm (in)	25 (9.8)

Notes

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Options

- Hot-galvanized fixation interfaces for diam 50 to diam 115 mm tubes (available from diam 30 up to diam 150mm upon request)
- Insulating stays strengthening wind resistance
- Power splitter (BJ) for antenna array
- Phasing coaxial straps
- Fitted, measured, low loss coaxial cables - any length
- Supporting pylons (SL 190 - SL 450, ...)

Other Documentation