



136-174MHz Log Periodic Array Antenna

The LPA136174-6NF log periodic antenna has been engineered to meet the requirements of a high gain, broadband, premium quality antenna. This antenna provides broadband coverage over the entire 136-174MHz frequency range without the need for field tuning. The antenna is manufactured using high strength aluminum to withstand heavy ice, high wind and other harsh environmental conditions. The innovative mechanical design has an integral feed line that is protected from the environment and handling during install. The entire antenna is anodized for appearance and corrosion resistance. A heavy duty clamp is supplied which easily permits mounting to a vertical mast. The design allows for field assembly which enables shipping by common carrier.

Features

- Elements and boom are manufactured from high quality aluminum for optimal strength
- Antenna is anodized for corrosion resistance
- Robust design that can be assembled in the field
- End-fed type N connector for ease of installation

Technical Data

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|-------------------------------------------|
| Maximum Power: 300 watts |
| Polarization: Linear, Vertical |
| Nominal Impedance: 50 ohms |
| Radiator Material: Aluminum |
| Mounting Method: Pipe mount (included) |
| Connector: Type N Female |
| Rated Wind Velocity: 150 mph |

RF/Electrical Specifications

| Model | Frequency Range | Nominal Gain | SWR | H-Plane Beamwidth | E-plane Beamwidth |
|---------------|-----------------|---------------|------|-------------------|-------------------|
| LPA136174-6NF | 136-174MHz | 8.1 dBi/6 dBd | <1.7 | 100° | 45° |

Mechanical Specifications

| Model | Antenna Dimensions* (L X W X D) | Weight (Mass) | Projected Flat Plate Area | Lateral Thrust @ Rated Wind | Bending Moment @ Rated Wind |
|---------------|------------------------------------|------------------|---------------------------|--------------------------------|--------------------------------|
| LPA136174-6NF | 57" x 43" x 5.5" | 20 lbs | 1.22 ft ² | 90 lbf | 426 ft-lbs |

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