

LPF8 FM Log Periodic Antenna

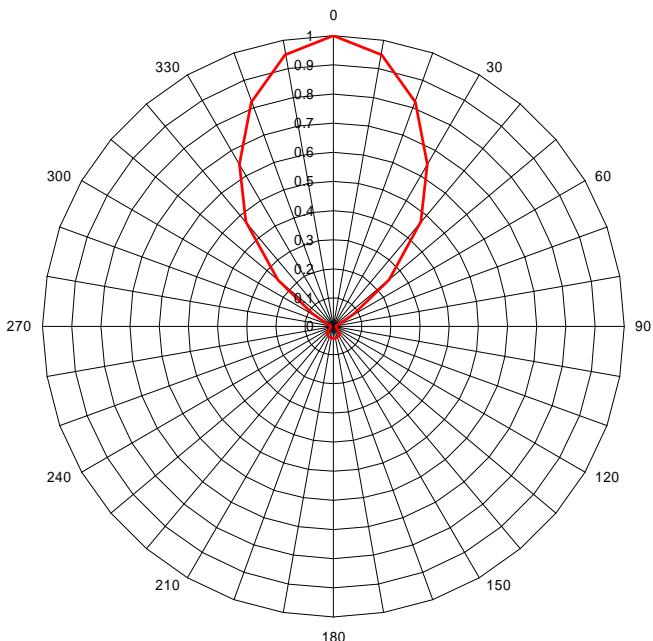
The **LPF8** is a rugged broadband log periodic antenna for FM (Band II) 88 to 108 MHz. The **LPF8** does not require any field tuning, and is available in a 50 Ohm version, with a 500 Watt input rating using an "N" connector, or a 75 Ohm version with a 250 Watt rating using a "F" connector. V.S.W.R. through the band is 1.40:1 or less. Average front to back ratio is 25 dB. The antenna may be mounted horizontally or vertically (rear mounted model only).

The **LPF8** has a gain of 5.1 (7.00 dB) with a half power beamwidth of 52 degrees. Two versions are available – a rear mounted model or a center mounted model.

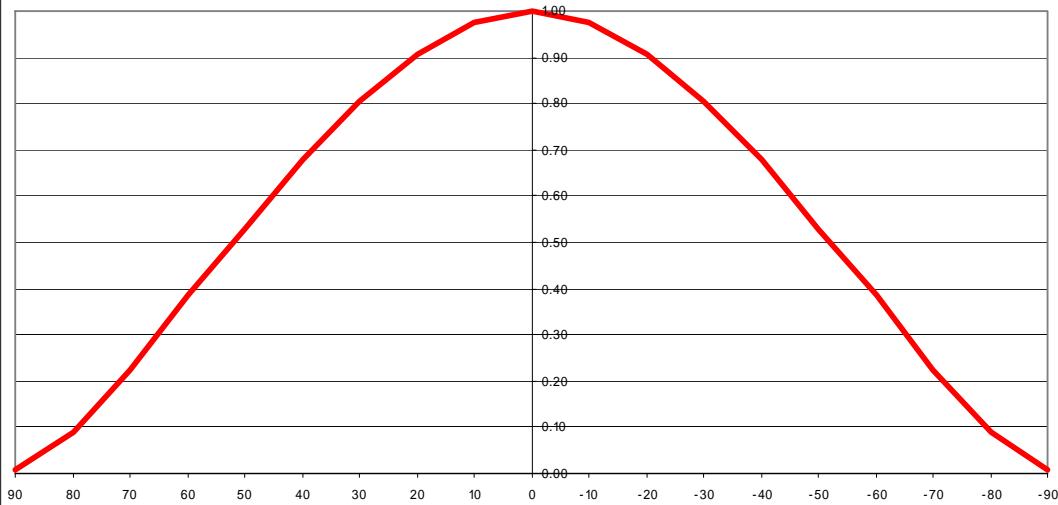
The **LPF8** antenna is designed for high environment areas and has a basic wind speed rating of 150 M.P.H. (240 K.P.H.).

LPF8 E and H plane patterns

LPF8 Azimuth Pattern (E-plane)



LPF8 Elevation Pattern (H-plane)



Special azimuth patterns using multiple LPF8's.

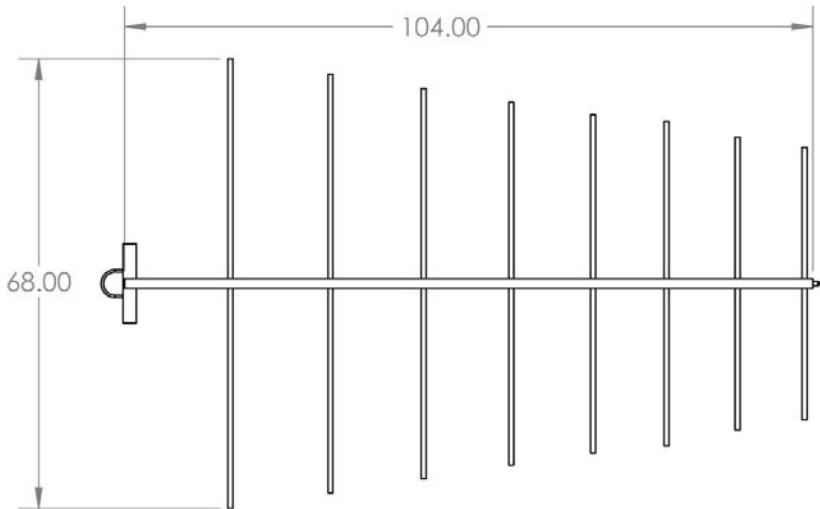
Custom azimuth patterns can be created by using multiple **LPF8** antennas fed by a power divider. Common patterns are a wide cardioid and a peanut pattern. In addition a dual linear polarized antenna system may be configured by mounting both a horizontal and vertically polarized **LPF8** antennas. Contact us for details.

Rugged design for long service life

The **LPF8** is the most rugged FM log periodic antenna on the market. The booms are heavy wall 1.5 inch (3.78 cm) 6061-T6 aluminum and are positioned together by fiberglass insulators. The elements are 5/8 inch (1.57 cm) solid 6061-T6 rod. The **LPF8** is finished with a Class 1A chromate treatment. In addition the **LPF8** is available with a high performance white topcoat.

The rear mount models feature a rugged stainless steel mounting bracket. For horizontal polarized rear mount models, a metallic strut and mounting clamp is furnished. For vertically polarized rear mount models a non-metallic strut and mounting clamp are furnished. Center mount models are furnished with a mounting clamp. The mounts are designed to mount on a 2.375 inch (60 cm) diameter pipe

When mounting the **LPF8** vertically in high wind zone areas, a lateral brace should be used to prevent the antenna from twisting on the tower.



The rear mounted **LPF8** is 104 inches (2.64 meters) long by 68 inches (1.72 meters) wide, and weighs 48 lbs (21.8 kg). The center mounted version is 89 inches (2.26 meters) long and weighs 30 lbs (13.6 kg). Maximum wind load area for the rear mounted antenna is 3.15 ft² (0.29 meters²).

Ordering information

LPF8 RH - Rear mount ,horizontal polarized

LPF8 RV - Rear mount, vertically polarized

LPF8 CH - Center mount, horizontally polarized

Specify a 50 Ohm or 75 Ohm version of the antenna when ordering



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