

## LOG R FM

*Vertically or Horizontally Polarized (field selectable)  
Directional, Log Periodic Broadband FM Antenna  
87.5 – 108 MHz*



- Lightning Protection – All metal parts DC grounded
- Compact & lightweight – can be disassembled for shipping and ease of field assembly
- Excellent front to back ratio
- Null fill, beam tilt and custom applications upon request

**Impedance:** 50 Ohm

**Pattern:** Directional

**VSWR:** < 1: 1.2

**Power rating:** (for one antenna) 550 W

**Front to back ratio:** > 20 dB

**Construction:** Aluminum

**Input connector:** “N” Type female on individual antenna

**Gain:** (for one antenna) 6.3 dBd, 8.44 dBi, Power Gain 4.3

**Bracket:** Can clamp on supports 1” to 3” (25 mm to 7.62 mm) diameter

**Typical center to center distance:** (in multi-bay arrays) 8 1/2 ft (2.6 meter)

**Approximate dimensions:** (per bay) 56” x 68 1/2” x 3 1/2” (1422mm x 1740mm x 89mm)

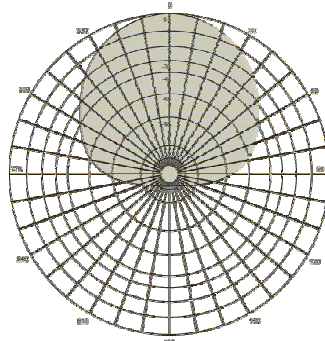
**Typical boxed size:** (per bay) 6” x 6” x 63” (152mm x 152mm x 1600mm)

**Typical weight:** (per bay) 10 Lbs / 4.5 Kg (boxed)

| Number of Bays | Gain (dbd) | Power Gain | Gain dBi | Pwr Rating | Vertical Height ft. / m. | Req. (*) Vertical Tower Space ft./ m. |
|----------------|------------|------------|----------|------------|--------------------------|---------------------------------------|
| 1              | 6.3        | 4.3        | 8.4      | 550 W      | 5' 8" / 1.74             | 14' 4" / 4.37                         |
| 2              | 9.3        | 8.5        | 11.4     | 1 kW       | 14' 3" / 4.34            | 22' 10" / 6.97                        |
| 3              | 11.1       | 12.8       | 13.2     | 1.5 kW     | 22' 9" / 6.94            | 31' 5" / 9.57                         |
| 4              | 12.3       | 17         | 14.4     | 2 kW       | 31' 3" / 9.54            | 39' 11" / 12.17                       |
| 5              | 13.3       | 21.3       | 15.4     | 2.5 kW     | 39' 10" / 12.14          | 48' 5" / 14.77                        |
| 6              | 14.1       | 25.6       | 16.2     | 3 kW       | 48' 4" / 14.74           | 57' / 17.37                           |
| 8              | 15.3       | 34.1       | 17.4     | 4 kW       | 65" 5' / 19.94           | 74' / 22.57                           |

Values shown are typical. Actual values may vary with each specific installation. Attenuation of connecting cables not taken into account. Gain will be affected if null fill, beam tilt or special wavelength spacing is required. If antenna is side mounted, the supporting structure will have a slight effect on radiation pattern and on VSWR. Contact us with details of your installation for customized data. Total tower space recommended allows 5 ft (1.5 m) of clear tower space above and below the mounting area to protect from pattern interference by other antennas. On all multi-bay arrays, we suggest extending support pipe 5 ft (1.5 m) above the top bay and below the bottom bay.

Typical Horizontal Pattern



Typical Vertical Pattern (single bay)

