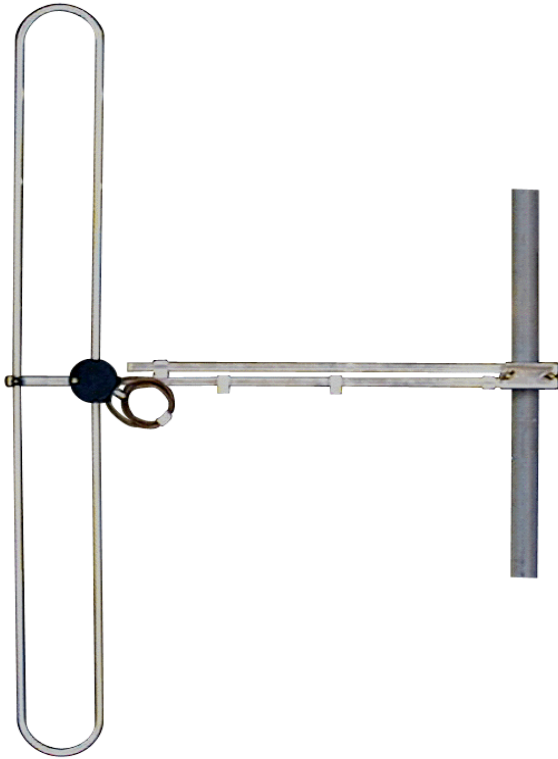


LDR1/MDR1



*Vertically or Horizontally Polarized (field selectable)
Omni-directional, Low Power Broadband
FM Dipole Antenna 87.5 -108 MHz*

- Lightning Protection – All metal parts DC grounded
- Compact, lightweight & foldable for shipping & ease of assembly
- Null fill, beam tilt and custom applications upon request
- No pressurization needed

Impedance: 50 Ohm

VSWR: < 1.2: 1

Input connector: each bay, “N” Type female

Construction: Aluminum

Typical ctr to ctr distance: (multi-bay arrays) 8½ ft (2.6 m)

Pattern: Omni-directional +/- 2 dB typical on a standard 4 inch / 100 mm steel pole support

Bracket: Can clamp on supports 1” to 2 1/2” (25 mm to 63 mm) diameter

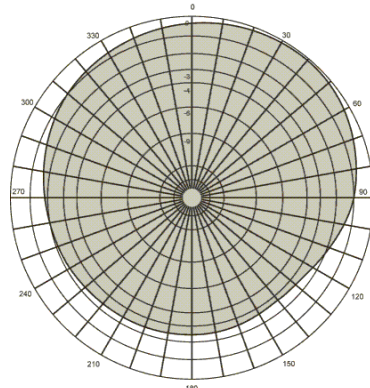
Approximate dimensions: (per bay) 33 ½” x 54” x 3 ¼” (850mm x 1370mm x 80mm)

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

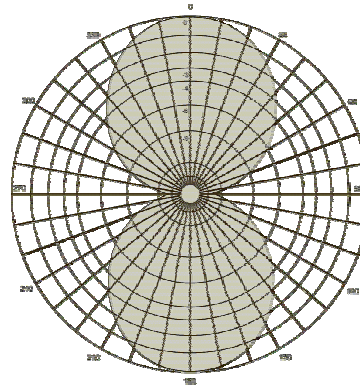
Typical weight: (per bay) 4 Lbs / 1.8 Kg (boxed)

Number of Bays	Gain (dbd)	Power Gain	Gain dBi	Pwr Rating LDR	Pwr Rating MDR	Vertical Height ft. / m.	Req. (*) Vertical Tower Space ft./ m.
1	1.5	1.4	3.6	200 W	550 W	4' 6" / 1.37	14' 4" / 4.37
2	4.5	2.8	6.6	350 W	1k W	13' / 3.97	22' 10" / 6.97
3	6	4	8.1	500 W	1.5 kW	21' 6" / 6.57	31' 5" / 9.57
4	7.5	5.6	9.6	700 W	2 kW	30' / 9.17	39' 11" / 12.17
5	8.5	7.05	10.6	850 W	2.4 kW	38' 7" / 11.77	48' 5" / 14.77
6	9.3	8.4	11.4	1 kW	2.8 kW	47' 2" / 14.37	57' / 17.37
8	10.5	11.3	12.6	1.3 kW	3.5 kW	64' 2" / 19.57	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)