

# TFLHO

*Horizontally Polarized  
Omni-directional,  
Stainless Steel, Tuned  
FM Antenna 87.5 - 108 MHz*



Lightning Protection – All metal parts DC grounded

No pressurization needed

Null fill, beam tilt & custom applications upon request

Impedance: 50 Ohm • VSWR: < 1.1: 1 within 500 kHz

Input connector: (each bay) “N” Type female

Typical ctr. to ctr. distance: (multi-bays) 8 ½ ft (2.6 m.)

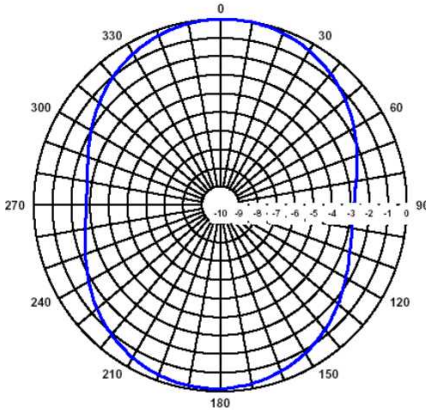
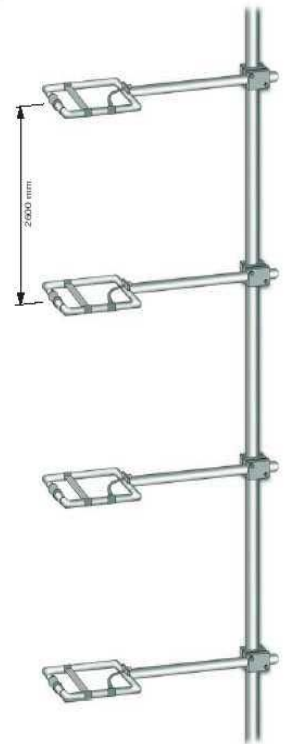
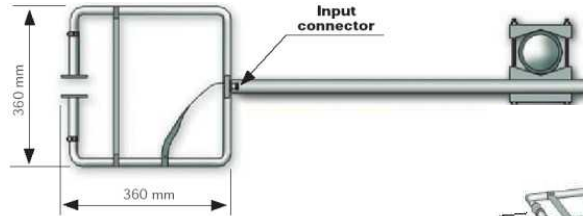
Bracket: can clamp on 1” to 4 3/16” (25mm to 110mm) dia.

Typical weight: (1 bay) 12.1 Lbs / 5.5 Kg (boxed)

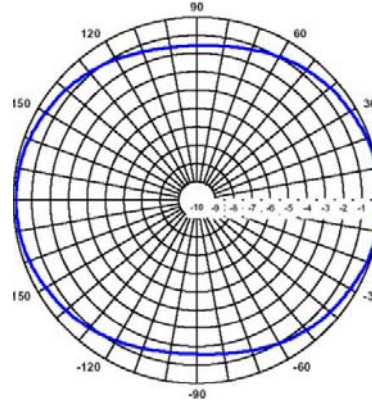
Approx size: (1 bay): 46” x 14” x 4” (550mm x 360mm x 100mm)

Typical boxed size: (1 bay) ”x ”x ” (750mm x 321mm x 381mm)

Pattern: Omni-directional +/- 1.5 dB typical on a standard 4” / 100mm steel pole as support



**Typical mid-band  
radiation pattern  
< Horizontal  
Vertical >  
(each bay)**



Number of Bays	Gain (dBd)	Power Gain	Gain (dbi)	Pwr Rating "N" type	Vertical Height ft. / m.	Req. (*) Vertical Tower Space ft/ m	Est. Wind Load lbs/Kg
1	-0.3	0.93	1.8	800 W	4' / 0.1	10' 2" / 3.1	14.3 / 6.5
2	2.7	1.8	4.8	1.5 kW	8' 10" / 2.7	18' 8" / 5.7	28.6 / 13
3	4.5	2.8	6.6	2.2 kW	17' 5" / 5.3	27' 3" / 8.3	42.9 / 19.5
4	5.7	3.7	7.8	2.8 kW	25' 11" / 7.9	35' 9" / 10.9	57.2 / 26
5	6.7	4.6	8.8	3.5 kW	34' 5" / 10.5	44' 3" / 13.5	71.5 / 32.5
6	7.5	5.6	9.6	4 kW	43' 0" / 13.1	52' 10" / 16.1	85.8 / 39
8	8.7	7.5	10.8	5.5 kW	60' 0" / 18.3	69' 10" / 21.3	114.4 / 52
12	10.5	11.2	12.6	7.5 kW	94' 2" / 28.7	104' 0" / 31.7	171.6 / 78

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 multi-bay arrays, we suggest extending support pipe min. 5 ft (1.5 m) above the top bay and below the bottom bay. Estimated wind loads are calculated w/o radome per EIA Standard RS-222-C for 100 mph (160 kph)