



TFL2Y

*Vertically or Horizontally Polarized,
87.5 - 108 MHz, Directional, Stainless
Steel, Broadband FM Yagi Antenna*

Pattern: Directional

Lightning Protection – All metal parts DC grounded

Null fill, beam tilt & custom applications upon request

Pressurization available upon request

Optional mini white fiberglass feedpoint radome available

Impedance: 50 Ohm • VSWR: < 1.3: 1

Input connector: (each bay) Type “N” F, 7-16 F, or 7/8” Flange

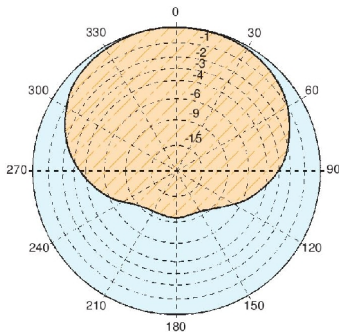
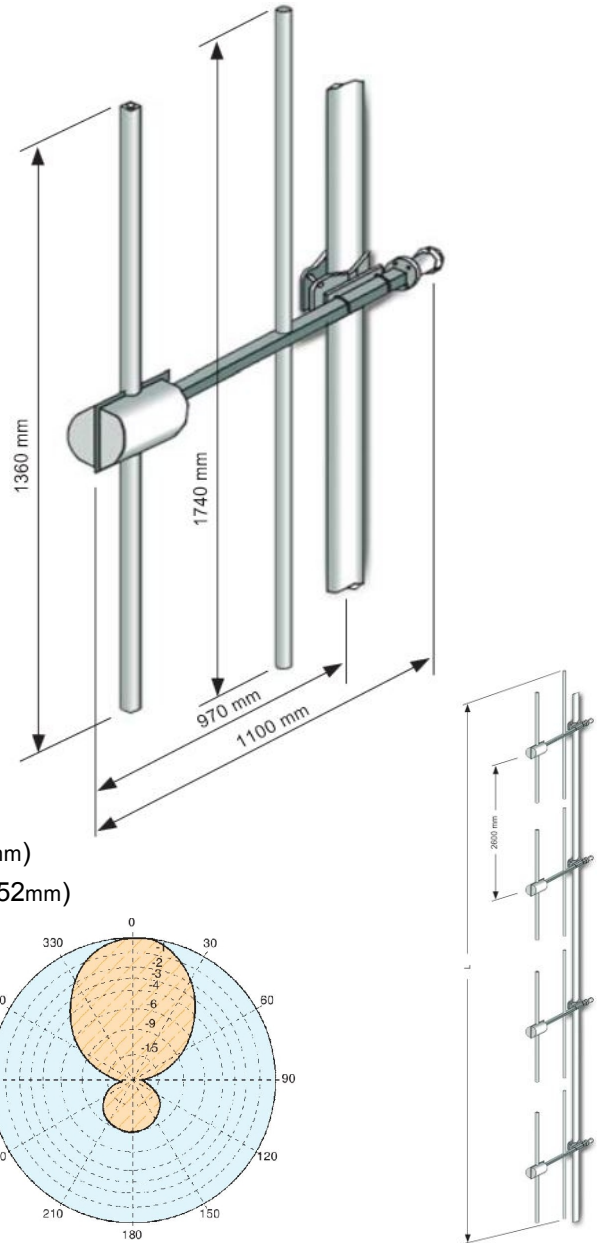
Typical ctr. to ctr. distance (multi-bays): 8 ½ ft (2.6 m.)

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

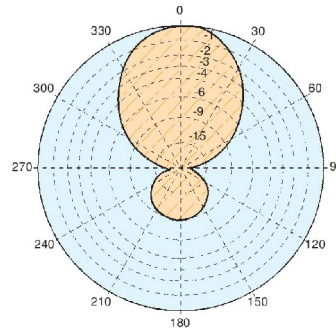
Typical weight: (1 bay) 29 Lbs / 13 Kg (boxed)

Approx size: (1 bay) 43½” x 68½” x 2½” (1100mm x 1740mm x 63mm)

Typical boxed size: (1 bay) 54¾” x 72” x 6” (1388mm x 1828mm x 152mm)



**Typical mid-band
radiation pattern
< H-Plane
E-Plane >
(each bay)**



N. of Bays	Gain (dBd)	Power Gain	Gain dBi	“N” Pwr Rating	7-16 Pwr Rating	7/8” Pwr Rating	Approx. Vert. Height ft / m	Req (*) Tower Space ft / m	Est. Wind Load lbs / Kg
1	2.5	1.7782	4.64	800 W	2 kW	4 kW	5' 8" / 1.74	14' 4" / 4.37	44.22 / 20.1
2	5.5	3.5481	7.64	1.5 kW	3.8 kW	7.5 kW	14' 3" / 4.34	22' 10" / 6.97	88.44 / 40.2
3	7	5.0118	9.14	2.2 kW	5.5 kW	11 kW	22' 9" / 6.94	31' 5" / 9.57	132.66 / 60.3
4	8.5	7.0794	10.64	2.8 kW	7.4 kW	15 kW	31' 3" / 9.54	39' 11" / 12.17	176.88 / 80.4
5	9.5	8.9125	11.64	3.5 kW	9.2 kW	18.5 kW	39' 10" / 12.14	48' 5" / 14.77	221.10 / 100.5
6	10.3	10.7151	12.44	4.1 kW	11 kW	22 kW	48' 4" / 14.74	57' / 17.37	265.32 / 120.6
7	11	12.5892	13.14	4.7 kW	13.8 kW	25.5 kW	56' 11" / 17.34	65' 6" / 19.97	309.54 / 140.7
8	11.5	14.1253	13.64	5.3 kW	14.5 kW	29 kW	65' 5" / 19.94	74' / 22.57	353.76 / 160.8
10	12.3	16.9824	14.44	6.8 kW	18.2 kW	36 kW	82' 6" / 25.14	91' 1" / 27.77	442.20 / 201
12	13.3	21.3796	15.44	7.5 kW	22 kW	40 kW	99' 6" / 30.34	108' 2" / 32.97	530.64 / 241.2

Values shown are typical. Actual values may vary with each specific installation. Power ratings are for single carrier. Attenuation of connecting cables not taken into account. Gain will be affected if null fill, beam tilt, special H / V ratio or special wavelength spacing is required. Gain is provided for one polarization and is equal in circularly polarized antennas for both horizontal and vertical components. 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. Est. wind loads are calculated per EIA Standard RS-222-C for 100 mph (160 kph).