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Telecom
RADIO ANTENNAS
TFC2K

Circularly Polarized

Omni-directional, Stainless Steel

Broadband FM Antenna 87.5 - 108 MHz



- Lightning Protection – All metal parts DC grounded
- Null fill, beam tilt & custom applications upon request
- Pressurization available upon request
- Galvanized Steel mounting bracket included
- Arms can be disassembled for shipping & transport
- Optional mini white fiberglass radome on feedpoint for icing protection available

VSWR: < 1.35

Impedance: 50 Ohm

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

Input connector: (each bay) "N" Type female, 7/8" EIA Flange or 1-5/8" EIA Flange (specify w/ order)

Dimensions: 45" x 44" x 44" (1150 x 1130 x 1130 mm)

Construction: Stainless steel (external) / Plated brass (internal)

Bracket: Can clamp on supports 1" to 4 3/16" (250 mm to 110mm) diameter

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

Typical shipping size: 66" x 12" x 12" (1700 mm x 300 x 300 mm)

Approximate dimensions: (per bay) 60"x 46"x 46" (1524mm x 1168mm x 1168mm)

Typical boxed size: (per bay) 72" x 12" x 12" (1828mm x 304mm x 304mm)

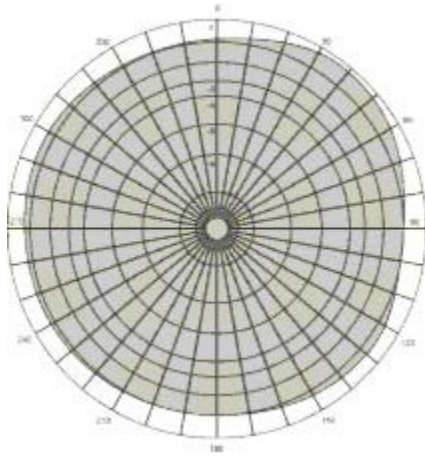
Typical weight: (per bay) 36 lbs (boxed)

Examples of multi-bay antenna systems using TFC2K Antennas

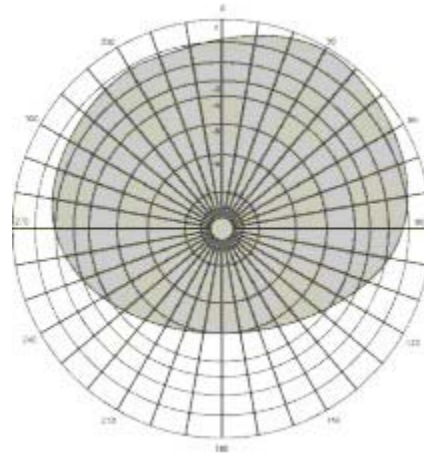
Number of Bays	Gain (dBd)	Power Gain	Gain (dbi)	Pwr Rating "N" type each bay	Pwr Rating 7/8" each bay	Pwr Rating 1-5/8" each bay	Req. Vertical Tower Space	Est. Wind Load lbs / Kg

							ft. / m.	
1	- 4.4	0.36	- 2.26	800 W	2 kW	6 kW	20 / 6.1	79 / 36
2	- 1.5	0.70	0.64	1.5 kW	3.5 kW	11 kW	30 / 9.1	165 / 75
3	0.04	1.01	2.18	2 kW	5 kW	16.5 kW	40 / 12.2	242 / 110
4	1.17	1.31	3.31	2.5 kW	7 kW	22 kW	50 / 15.2	330 / 150
5	1.5	1.41	3.64	3 kW	8.5 kW	27.5 kW	60 / 18.3	402 / 183
6	2.83	1.92	4.97	3.5 kW	10 kW	32 kW	70 / 31.3	484 / 220
8	4.00	2.53	6.14	4 kW	13.5 kW	41 kW	90 / 27.4	653 / 297
12	6.5	4.46	8.64	6 kW	20 kW	58 kW	120 / 39.6	979 / 445

Values shown are typical. Actual values may vary with each specific installation. Gain is provided for one polarization and is equal in circularly polarized antennas for both horizontal and vertical components. Gain will be affected if null fill, beam tilt, special H / V ratio 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. Approximate weight data is for models with "N" type connector and 7/8" only, please inquire for 1' 5/8" input. 1' 5/8" input models are broadband only over approx 5 MHz selectable bandwidth. Total tower space recommended allows 10 ft (3 m) of clear tower space above & 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 & below the bottom bay. Wind loads are calculated per EIA Standard RS-222-C for 112 mph (180 kph) & include antenna, interbay feedline, connectors & power dividers.



Typical Horizontal Pattern



Typical Vertical Pattern(single bay)