



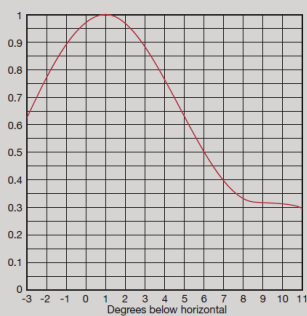
This horizontally polarized traveling wave antenna for Channels 7 to 13 uses the reliable technology Dielectric is known for in a very aperture efficient, low windload design. The TW antenna is designed for omnidirectional applications.

This antenna comes with a full radome. The strong polycarbonate radome is impregnated with international orange or white and does not require any painting during its lifetime. Non-radomed versions are available upon request. Pole pressurization is not required for normal operation of the antenna.

### Specifications:

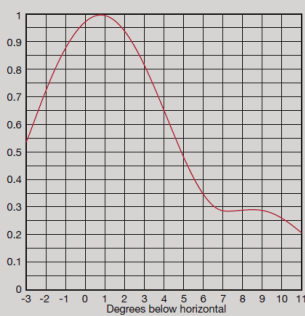
- Excellent circularity
- Horizontally polarized
- Proven design with low windload
- Can be structurally designed for stacking
- Full polycarbonate radome standard
- Slot Covers optional
- Deicers optional
- High power handling
- Elevation gains from 7 (8.45dBd) to 15 (11.76dBd)
- Other available options are bury mount and side mounting on a tower

**TW-7B**



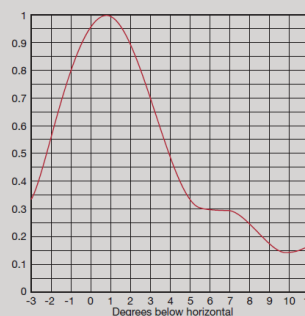
7.0 (8.45dB) RMS Gain

**TW-9B**



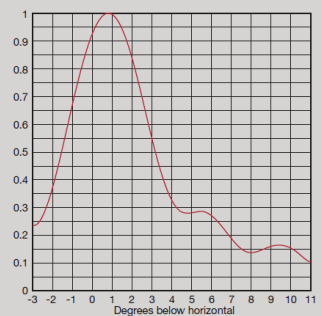
9.0 (9.54dB) RMS Gain

**TW-12B**



12.0 (10.79dB) RMS Gain

**TW-15B**



15.0 (11.76dB) RMS Gain

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### Electrical Specifications

Polarization	Beam Tilt	Azimuth Pattern Circularity	Max Avg. Power	Vertical Pattern Gains (dBd)	Inputs Available	Input VSWR
Horizontal	.5° to 1.0° typical	±0.8dB	50kW	7, 9, 12, 15	3-1/8", 4-1/16" 6-1/8" 50 Ohms or 6 1/8" 75 Ohms	1.08:1 channel

### Mechanical Specifications

	Channel	Freq (MHz)	H2 (ft)	H3 (ft)	D1 (ft)	R1 (ft)	Moment (ft-lbs)	CaAc (ft^2)	Natural Freq. (Hz)	Weight (lbs)
TW-7Bx-R	7	177	50.9	27.4	26.4	2890	76290	52.8	1.04	8100
	8	183	49.5	26.5	25.8	2820	72680	51.5	1.11	7900
	9	189	48.1	25.7	25.2	2750	69250	50.2	1.17	7700
	10	195	46.9	25.1	24.6	2680	66010	49	1.23	7500
	11	201	45.7	24.2	24.1	2620	63170	47.9	1.29	7300
	12	207	44.6	23.5	23.6	2570	60700	46.9	1.36	7200
	13	213	43.6	23	23.2	2510	58120	45.9	1.42	7000
TW-7Bx w/Slot Cover	7	177	50.9	27.4	27.4	2070	56770	37.7	1.04	8000
	8	183	49.5	26.5	26.7	2020	53980	36.8	1.11	7800
	9	189	48.1	25.7	26.1	1970	51340	36	1.17	7600
	10	195	46.9	25.1	25.4	1930	49110	35.2	1.23	7500
	11	201	45.7	24.2	24.9	1890	47000	34.4	1.29	7300
	12	207	44.6	23.5	24.3	1850	44990	33.7	1.36	7200
TW-9Bx-R	7	177	59.2	31.5	30.8	3760	115630	68.6	1.02	12600
	8	183	57.5	30.5	30	3650	109480	66.7	1.08	12200
	9	189	55.9	29.6	29.3	3560	104250	65	1.14	11900
	10	195	54.5	28.9	28.6	3470	99300	63.3	1.2	11600
	11	201	53.1	27.9	28	3380	94600	61.8	1.27	11300
	12	207	51.8	27.1	27.4	3300	90410	60.3	1.33	11000
TW-9Bx w/Slot Cover	7	177	59.2	31.5	32.2	2790	89940	50.9	1.02	12500
	8	183	57.5	30.5	31.4	2710	85080	49.6	1.08	12200
	9	189	55.9	29.6	30.6	2650	81110	48.3	1.14	11800
	10	195	54.5	28.9	29.9	2580	77060	47.1	1.2	11500
	11	201	53.1	27.9	29.2	2520	73510	46	1.27	11300
	12	207	51.8	27.1	28.5	2460	70150	45	1.33	11000
TW-12Bx-R	7	177	75.9	39.9	38.2	3310	126550	87.1	0.62	16000
	8	183	73.6	38.6	37.2	3220	119890	84.6	0.66	15600
	9	189	71.5	37.4	36.3	3130	113610	82.3	0.7	15100
	10	195	69.9	36.5	35.4	3070	107900	80.1	0.74	14700
	11	201	67.7	35.2	34.6	3000	102700	78.1	0.78	14300
	12	207	66	34.2	33.8	2930	98000	76.1	0.82	14000
TW-12Bx	7	177	75.9	39.9	33.1	3220	106500	74.3	0.86	13600
	8	183	73.6	38.6	33.4	3130	100900	72.3	0.9	13200
	9	189	71.5	37.4	33.1	3040	95900	70.3	0.94	12800
	10	195	69.6	36.5	32.8	2950	91500	68.3	0.98	12400
	11	201	67.7	35.2	32.5	2860	86900	66.3	1.02	12000
	12	207	66	34.2	32.2	2770	82900	64.3	1.06	11600
	13	213	64.4	33.4	31.9	2680	79500	62.3	1.1	11200

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