



UHF DTV/NTSC ANTENNAS



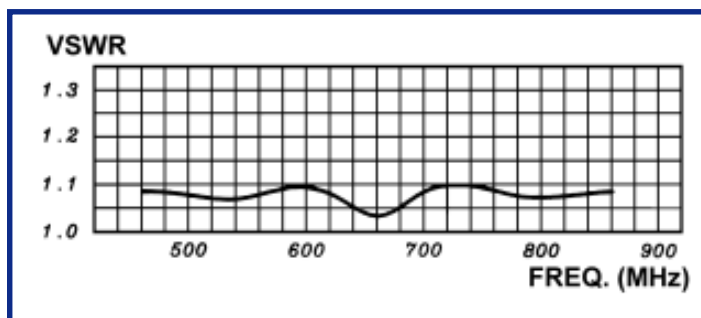
- Broadcast NTSC and DTV Channel from One Antenna
- Broadband
- Low VSWR
- Low Non-Ionized Radiation
- Horizontal Polarization
- Omni and Directional Patterns

The new "All Band" UHF-TV antenna (470-860 MHz), can be used to broadcast an existing UHF NTSC channel and any future DTV channel. The broadband and high power capabilities make it useful for multi-channel applications.

The VSWR is less than 1.1 from channels 14-69. Using the new offset techniques, low ripple omnidirectional patterns are obtained.

Null fill and beam tilt are available by line length change. A large number of directional patterns are obtainable.

The antenna is designed in doublet pairs to minimize downward radiation and to satisfy OSHA requirements.



The antenna is hot dipped galvanized steel. All the hardware is stainless steel. A fiberglass radome covers the complete antenna. The completely grounded structure protects the antenna from lightning. As an option the entire antenna system can be covered by a cylindrical radome.



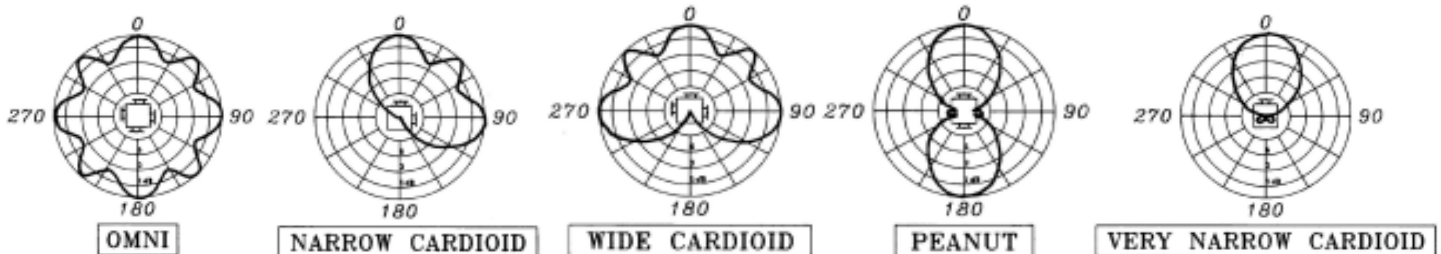
PANEL SPECIFICATIONS

Channel: 14 - 69	Gain: 12 dB (15.8 X) @ 650 MHz
VSWR: 1.1 from 470-800 MHz	Size: 3.25x1.5x0.75 ft. (1x0.45x0.23 m.)
Impedance: 50 ohms	Weight: 30 lbs. (13.6 kg.)
Power: 5 kW (average)	Wind Area: 4.8 ft. ² (0.45 m. ²)
Polarization: Horizontal	Wind Load: 140 lbs. (63.5 kg.)
1/2 Power Beamwidth: ± 32°	Connectors: 7/8 EIA

NO. OF BAYS	PATTERN	PANELS PER BAY	GAIN ⁽¹⁾⁽²⁾		WEIGHT ⁽⁴⁾		HEIGHT ⁽²⁾		CaAc ft ² ⁽³⁾
			DB	POWER	LBS	(kg)	FT	(m)	
4	OMNI	4	11.2	13.2	529	240	14.5	(4.4)	70
4	WIDE	3	12.5	17.8	397	180	14.5	(4.4)	70
4	PEANUT	2	13.9	24.5	265	120	14.5	(4.4)	67
4	NARROW	2	14.3	26.9	265	120	14.5	(4.4)	70
4	V. NAR	1	16.9	49.0	132	60	14.5	(4.4)	40
6	OMNI	4	12.9	19.5	794	360	22.0	(6.7)	105
6	WIDE	3	14.2	26.3	595	270	22.0	(6.7)	105
6	PEANUT	2	15.4	34.7	397	180	22.0	(6.7)	100
6	NARROW	2	16.0	39.8	397	180	22.0	(6.7)	105
6	V. NAR	1	19.1	81.3	198	90	22.0	(6.7)	59
8	OMNI	4	14.1	25.7	1058	480	30.0	(9.1)	140
8	WIDE	3	15.4	34.7	794	360	30.0	(9.1)	140
8	PEANUT	2	16.5	44.7	529	240	30.0	(9.1)	133
8	NARROW	2	17.2	52.5	529	240	30.0	(9.1)	140
8	V. NAR	1	20.3	107.15	265	120	30.0	(9.1)	79
10	OMNI	4	15.1	32.5	1323	600	37.2	(11.35)	175
10	WIDE	3	16.4	43.8	992	450	37.2	(11.35)	175
10	PEANUT	2	17.5	56.2	662	300	37.2	(11.35)	166
10	NARROW	2	18.2	66.4	662	300	37.2	(11.35)	175
10	V. NAR	1	21.2	132.5	331	150	37.2	(11.35)	99
12	OMNI	4	15.9	38.9	1588	720	44.8	(13.65)	210
12	WIDE	3	17.2	52.6	1147	520	44.8	(13.65)	210
12	PEANUT	2	18.3	67.6	794	360	44.8	(13.65)	199
12	NARROW	2	19.0	79.6	794	360	44.8	(13.65)	210
12	V. NAR	1	22.0	158.5	441	200	44.8	(13.65)	118

All specifications are subject to change without notice.

- (1) Referred to half wave dipole. Attenuation of connecting cables not taken into account.
- (2) Gains calculated @ 650 MHz and may vary across the UHF band.
- (3) CaAc factors are calculated without panel offset. Figures are for guidance only. Contact MCI for figures specific to a particular application.
- (4) Allow 20 Lbs (9kg) per panel, if ordered with mounting brackets.



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