



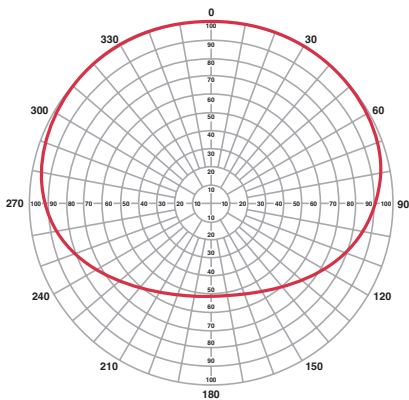
## THV SERIES

The THV antenna is designed for omnidirectional and directional VHF applications (Channels 7-13) in both top and side-mounted configurations. The THV utilizes the simplicity and reliability of pylon technology. This antenna combines high power handling, pattern diversity (elevation and azimuth), and Dielectric’s conservative design approach to produce a superior product for single frequency high band operations.

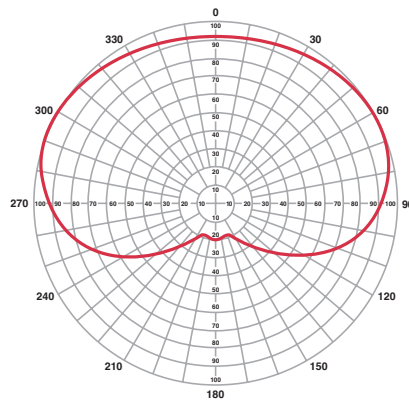
The THV azimuth pattern can be custom designed to fit a variety of applications, catering to facilities proposing maximization for DTV, those with protection requirements or those wishing to focus the energy towards the market of interest.

- Low windload/economical design
- Available with custom azimuth patterns
- Elevation gains from 4.0 (6.02 dB) to 13.0 (11.14 dB)
- Peak gains to 24.7 (13.2 dB)
- Full polycarbonate radome standard
- High input power handling
- Ideal for analog and digital applications
- Available with VPOL, EPOL or CPOL

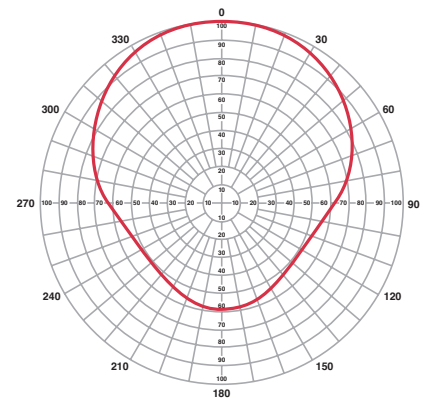
Contact factory for omnidirectional options.



**C140** DIRECTIVITY = 1.4



**C170** DIRECTIVITY = 1.7



**S190** DIRECTIVITY = 1.9

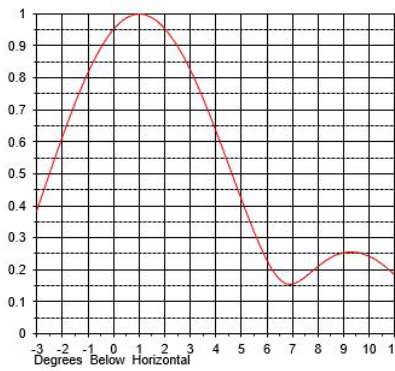
**THV SERIES**

**THV-7A**



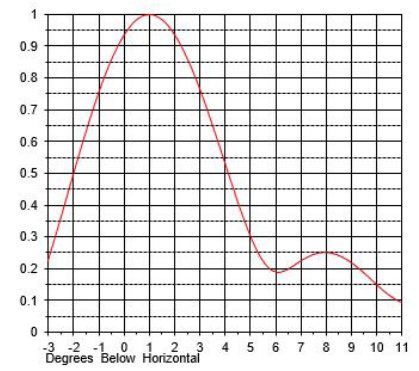
**RMS GAIN 7.0 (8.45 dB)**

**THV-9A**



**RMS GAIN 9.0 (9.54 dB)**

**THV-11A**



**RMS GAIN 11.0 (10.41 dB)**

**THV SERIES—TYPICAL MECHANICAL SPECIFICATIONS**

**THV-XAX-R 04, 2" SLOT, 3" HARNESS, NO VP**

**G-Code**

**F-Code**

BWS	90 mph	BWS	70
S.C.	II		
E.C.	C		
T.C.	1		

	Channel	H4 (ft)	H2 (ft)	H3 (ft)	W (lbs)	EPA	D1	CaAc	D1
THV-7Ax	7	48	44	22	5,000	68.5	23.2	67.9	23.4
	8	46.6	42.6	21.3	4,850	66.5	22.5	65.9	22.7
	9	45.3	41.3	20.65	4,700	64.4	21.8	63.9	22.0
	10	44.1	40.1	20.05	4,600	62.6	21.2	62.2	21.4
	11	42.9	38.9	19.45	4,450	60.9	20.6	60.5	20.8
	12	41.9	37.9	18.95	4,350	59.4	20.1	59.0	20.3
	13	40.8	36.8	18.4	4,250	57.8	19.6	57.4	19.8
THV-9Ax	7	60.1	56.1	28.1	7,900	86.4	29.2	85.5	29.4
	8	58.4	54.4	27.2	6,100	83.9	28.4	83.1	28.6
	9	56.8	52.8	26.4	5,900	81.5	27.6	80.8	27.8
	10	55.3	51.3	25.6	5,750	79.2	26.8	78.5	27.0
	11	53.8	49.8	24.9	5,600	77.0	26.1	76.3	26.2
	12	52.5	48.5	24.2	5,450	75.1	25.4	74.4	25.6
	13	51.2	47.2	23.6	5,350	73.2	24.8	72.6	25.0
THV-11A	7	71.2	67.2	33.6	11,600	102.8	34.8	101.7	34.9
	8	69.1	65.1	32.6	11,250	99.7	33.7	98.6	33.9
	9	67.2	63.2	31.6	10,950	96.9	32.8	95.9	33.0
	10	65.3	61.3	30.7	8,550	94.0	31.8	93.0	32.0
	11	63.6	59.6	29.8	8,350	91.5	31.0	90.6	31.1
	12	62.0	58.0	29.0	8,150	89.2	30.2	88.3	30.4
	13	60.4	56.4	28.2	7,900	86.8	29.4	85.9	29.6

\*Contact factory for application-specific mechanical details.