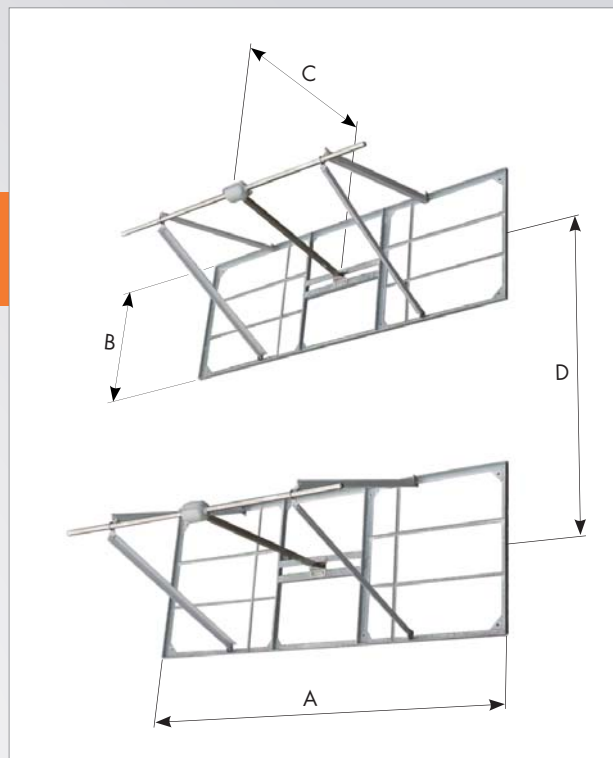


# 1VTV-05/.F

## VHF PANEL ANTENNA

### FEATURES

- horizontal polarization
- band I° panel 54 ÷ 88 MHz
- 7.5 dB gain
- directional pattern
- suitable for square towers
- stainless steel dipoles



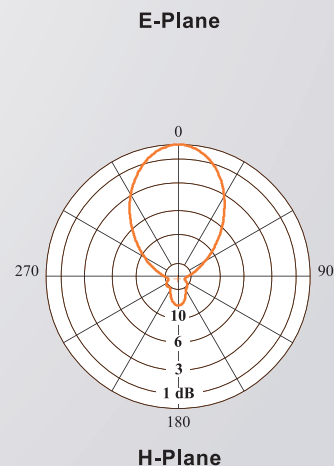
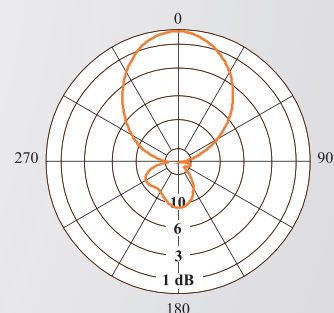
### ELECTRICAL DATA

ANTENNA TYPE	1VTV-05/2F	1VTV-05/3F	1VTV-05/4F	1VTV-05/5F	1VTV-05/6F
FREQUENCY RANGE	54÷60 MHz (channel 2)	60÷66 MHz (channel 3)	66÷72 MHz (channel 4)	76÷82 MHz (channel 5)	82÷88 MHz (channel 6)
IMPEDANCE	50 ohm				
CONNECTOR	2 x 7/8" EIA				
MAX POWER	2 x 2.5 kW				
VSWR	≤ 1.15				
POLARIZATION	Horizontal				
GAIN (referred to half wave dipole)	7.5 dB				
HALF POWER BEAMWIDTH	E-Plane ± 35° H-Plane ± 27°				
LIGHTNING PROTECTION	All Metal Parts DC Grounded				

### MECHANICAL DATA

DIMENSIONS (mm)	A	3020	2690	2460	2165	2000
	B	1190	1060	970	850	810
	C	1580	1490	1312	1245	1170
	D	2500	2310	2100	2000	1900
WEIGHT (kg)		132	120	106	100	90
WIND LOAD (kN) at 150 km/h		3.43	3.1	2.86	2.6	2.55
MAX WIND VELOCITY		220 km/h				
MATERIALS		Brass, aluminium, stainless steel, hot dip galvanized steel (reflector), teflon, fiberglass (radome)				
ICING PROTECTION		Feed point radome				
RADOME COLOUR		Grey (standard)				
MOUNTING		Directly on supporting mast				

### RADIATION PATTERNS (Mid Channel)

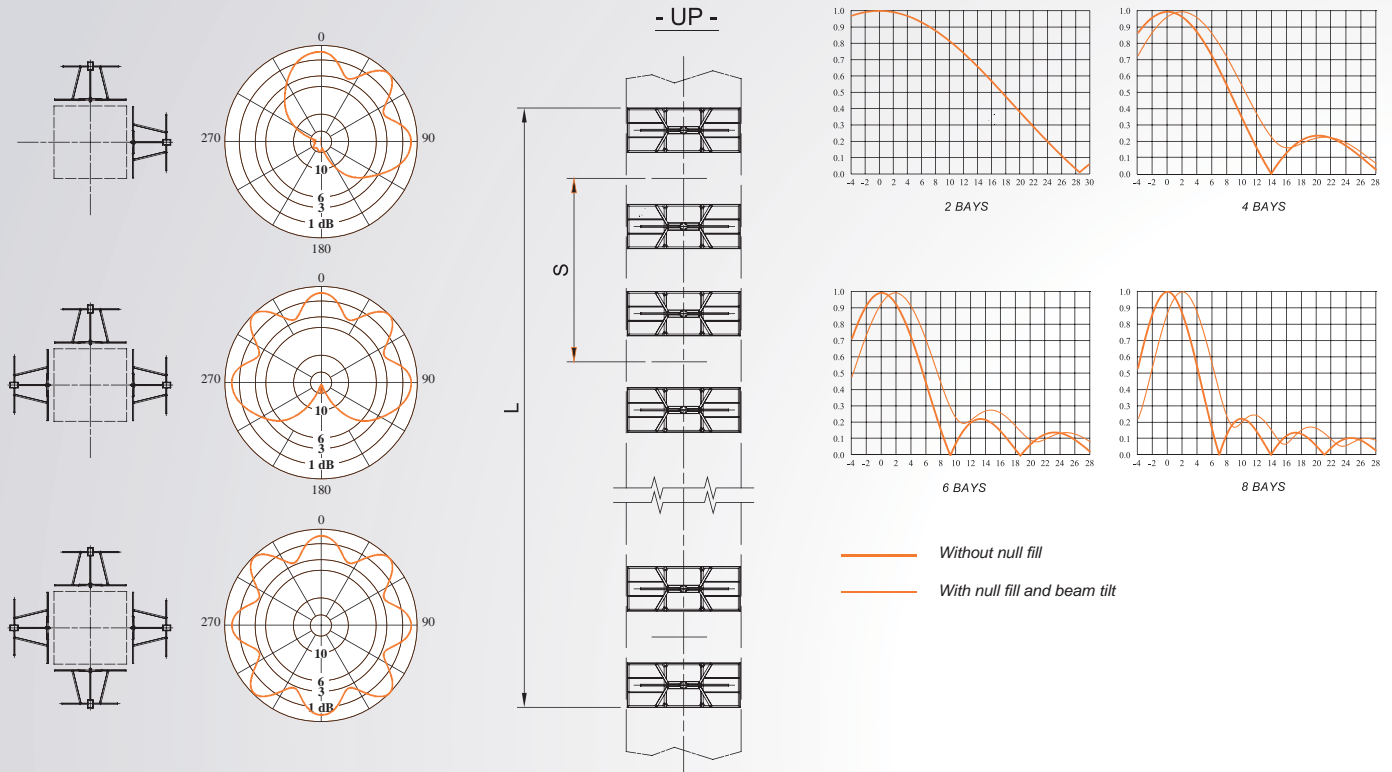


# 1VTV-05/.F

## VHF PANEL ANTENNA

### HORIZONTAL PATTERNS WITH 2, 3 AND 4 FACES

### VERTICAL PATTERN



### TECHNICAL DATA

NUMBER OF BAYS	PANELS PER BAY	GAIN dB (1)	GAIN TIMES (1)	WEIGHT kg (2)					ANTENNA HEIGHT L m (Spacing S in m)						WIND LOAD kN (3)				
				ch.2 54÷60 MHz	ch.3 60÷66 MHz	ch.4 66÷72 MHz	ch.5 76÷82 MHz	ch.6 82÷88 MHz	ch.2 54÷60 MHz	ch.3 60÷66 MHz	ch.4 66÷72 MHz	ch.5 76÷82 MHz	ch.6 82÷88 MHz	ch.2 54÷60 MHz	ch.3 60÷66 MHz	ch.4 66÷72 MHz	ch.5 76÷82 MHz	ch.6 82÷88 MHz	
1	2	5.2	3.3	270	250	230	210	190							5.3	4.9	4.4	4.1	4
	3	3.6	2.3	425	395	365	335	305	3.69	3.37	3.07	2.85	2.71	8	7.5	6.8	6.1	6	
	4	2	1.6	590	550	510	470	430						9.8	8.9	8.2	7.7	7.4	
2	1	11.2	13.2	270	250	230	210	190						10	9.2	8.6	7.9	7.7	
	2	8.2	6.6	590	550	510	470	430	9.29	8.37	7.77	6.95	6.51	10.6	9.7	8.9	8.2	8	
	3	6.6	4.6	920	860	800	740	680	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	16	14.8	13.5	12.3	12	
4	1	14.2	26.3	590	550	510	470	430						20.4	19	17.3	15.9	15.5	
	2	11.2	13.2	1200	1120	1040	960	880	20.49	18.37	17.17	15.15	14.11	20.9	19.2	17.6	16.2	15.9	
	3	9.6	9.1	1770	1650	1530	1410	1290	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	31.7	29.5	26.8	24.6	24	
6	1	16	39.8	920	860	800	740	680						30.9	28.6	26	23.9	23.4	
	2	13	20	1770	1650	1530	1410	1290	31.69	28.37	26.57	23.35	21.71	31.4	28.7	26.3	24.2	24	
	3	11.4	13.8	2630	2450	2270	2090	1910	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	46.7	44.3	40.2	36.8	35.8	
8	1	17.4	55	1200	1120	1040	960	880						41.5	38.1	34.9	32.1	31.3	
	2	14.4	27.5	2360	2200	2040	1880	1720	42.89	38.37	35.97	31.55	29.31	41.8	38.4	35.2	32.4	31.9	
	3	12.6	18.2	3440	3200	2960	2720	2480	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	63.3	59.1	53.7	49.1	47.9	
4	11.4	13.8	4520	4200	3880	3560	3240						77.5	70.9	65.9	60.6	58.1		

(1) referred to half wave dipole. Losses of power distribution network not included.  
 (2) without mounting hardware  
 (3) v= 150 km/h