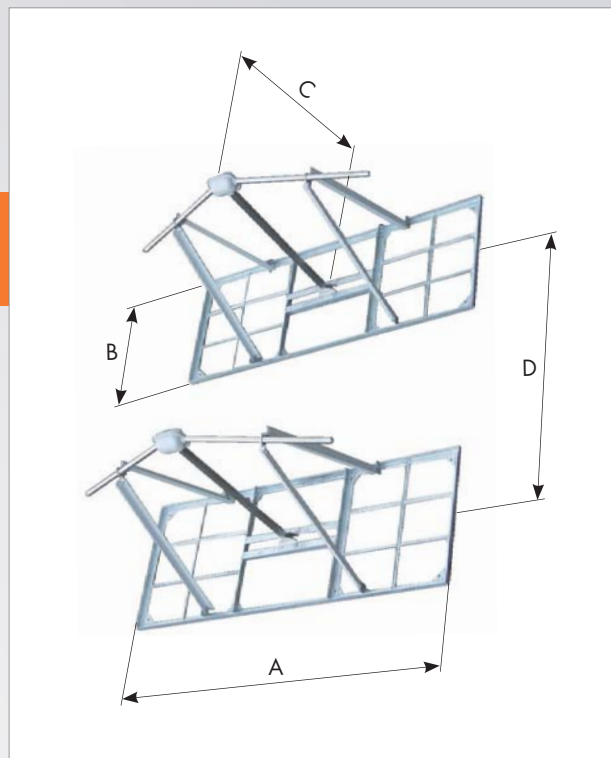


1VTV-04/.F

VHF PANEL ANTENNA

FEATURES

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



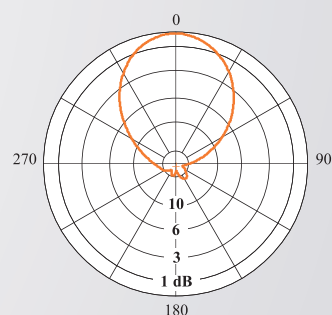
ELECTRICAL DATA

ANTENNA TYPE	1VTV-04/2F	1VTV-04/3F	1VTV-04/4F	1VTV-04/5F	1VTV-04/6F
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)	6.5 dB				
HALF POWER BEAMWIDTH	E-Plane ± 38° H-Plane ± 27°				
LIGHTNING PROTECTION	All Metal Parts DC Grounded				

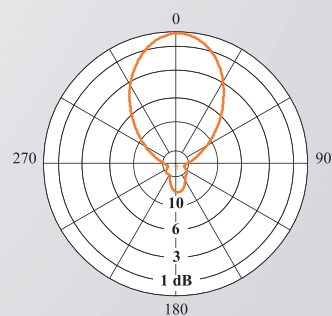
MECHANICAL DATA

DIMENSIONS (mm)	A	3020	2690	2460	2165	2000
	B	1190	1060	970	850	810
	C	1800	1577	1521	1384	1300
	D	2500	2310	2100	2000	1900
WEIGHT (kg)		130	120	112	100	90
WIND LOAD (kN) at 150 km/h		3.47	3.15	2.89	2.63	2.58
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)



E-Plane

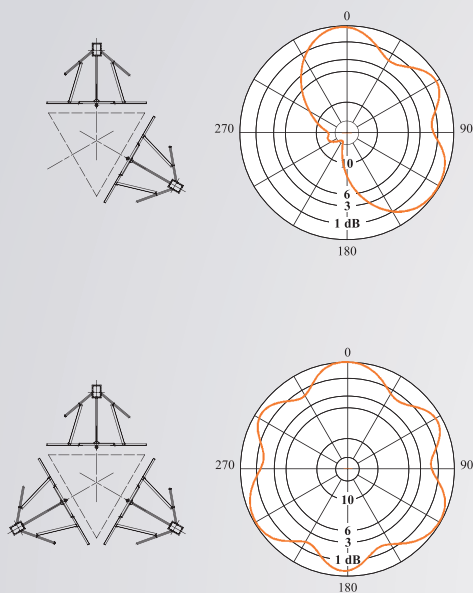


H-Plane

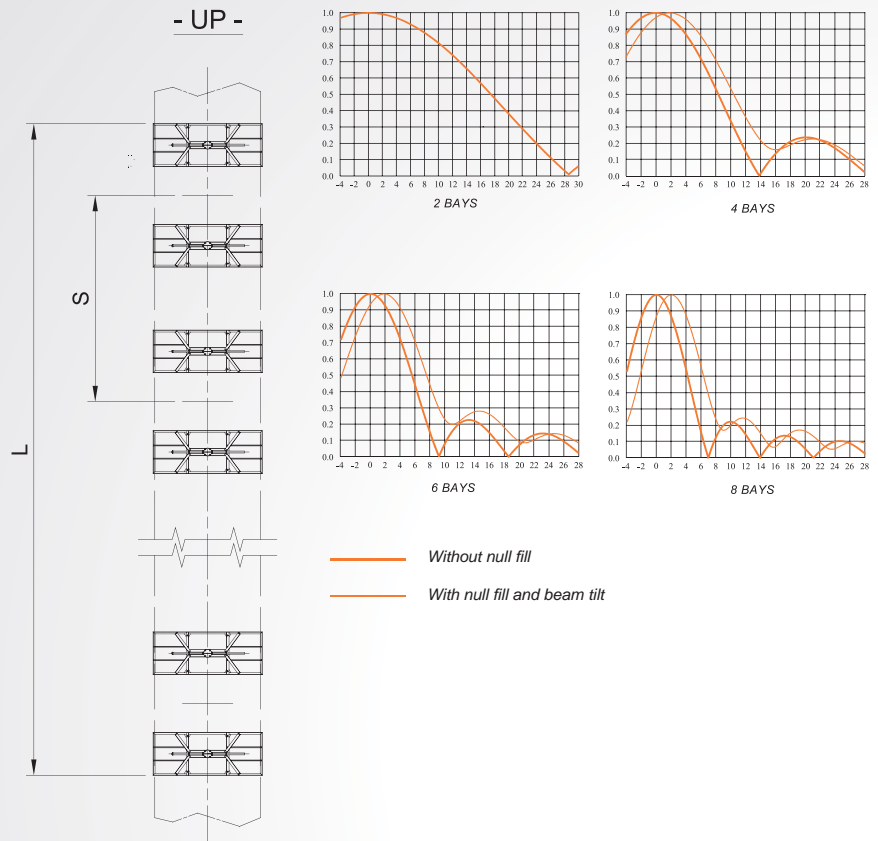
1VTV-04/.F

VHF PANEL ANTENNA

HORIZONTAL PATTERNS WITH 2 AND 3 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	3.3	2.1	270	250	230	210	190	3.69	3.37	3.07	2.85	2.71	5.4	5	4.5	4.2	4.1			
	3	1.6	1.4	425	395	365	335	305						8.1	7.6	6.9	6.2	6.1			
2	1	9.5	8.9	270	250	230	210	190	9.29	8.37	7.77	6.95	6.51	10.1	9.3	8.7	8	7.8			
	2	6.5	4.5	590	550	510	470	430	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	10.7	9.8	9	8.3	8.1			
	3	4.8	3.0	920	860	800	740	680						16.1	14.9	13.6	12.4	12.1			
4	1	12.7	18.6	590	550	510	470	430	20.49	18.37	17.17	15.15	14.11	20.5	19.1	17.4	16	15.6			
	2	9.7	9.3	1200	1120	1040	960	880	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	21	19.3	17.7	16.3	16			
	3	8.0	6.3	1770	1650	1530	1410	1290						31.8	29.6	26.9	24.7	24.1			
6	1	14.5	28.2	920	860	800	740	680	31.69	28.37	26.57	23.35	21.71	31	28.7	26.1	24	23.5			
	2	11.5	14.1	1770	1650	1530	1410	1290	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	31.5	28.8	26.4	24.3	24.1			
	3	9.8	9.6	2630	2450	2270	2090	1910						46.8	44.4	40.3	36.9	35.9			
8	1	15.8	38.0	1200	1120	1040	960	880	42.89	38.37	35.97	31.55	29.31	41.6	38.2	35	32.2	31.4			
	2	12.8	19.0	2360	2200	2040	1880	1720	(5.6)	(5.0)	(4.7)	(4.1)	(3.8)	41.9	38.5	35.3	32.5	32			
	3	11.1	12.9	3440	3200	2960	2720	2480						63.4	59.2	53.8	49.2	48			

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