

Band II "V" dipoles circular polarization antenna system • Side-mounted installation
Electrical Specifications

Frequency range	87.5-108 MHz		
Peak gain	-0.1 dB (ref. $\lambda/2$ dipole, free space) 1.1 dB (ref. $\lambda/2$ dipole, with pole)		
3 dB beam width	Horizontal: 268°	Vertical: 97°	
Polarization	Circular		
Impedance	50 Ohm		
VSWR	≤1.4:1		
Maximum power handling	2.5 kW	5 kW	7 kW
Connector type	DIN 7/16	EIA 7/8"	DIN 13/30
Pressurization	Non pressurized	Gas barrier on input connector	
	Fully pressurized as an option		


Mechanical & Environmental Specifications

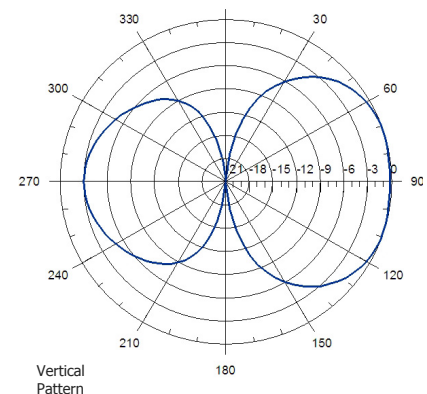
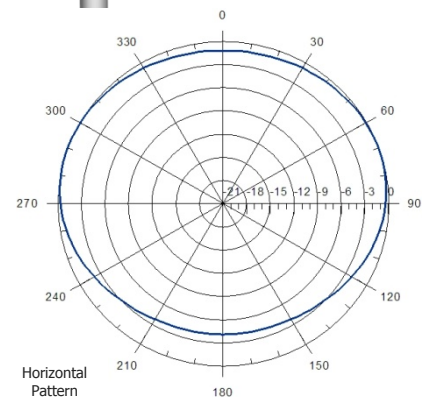
Materials	Structure Feed point radome	Hot dip galvanized steel PVC
Dimensions (W x D x H)	1191 x 1528 x 1191 mm	
Maximum wind speed	200 km/h	
Wind load	305 N (@160 km/h)	
Weight	20 kg	
Clamp type	To Ø 80 – 115 mm pipe	
Vertical spacing	0.75 λ 0.9 λ typical	
Grounding	DC grounded	
Temperature range	-40°C to +80°C	
Humidity	100%	

Antenna System Characteristics

Number of Bays	Number ant. per bay	Peak gain (dBd)	Weight (kg)	Wind load (@160 km/h)	System height (mm)
1	1	1.1	20	0.3 kN	1191
2	1	4.1	40	0.6 kN	3800
4	1	7.1	80	1.2 kN	9017
6	1	8.9	120	1.8 kN	14234
8	1	10.1	160	2.4 kN	19452
10	1	11.1	200	3.0 kN	24669
12	1	11.9	240	3.6 kN	29886

Optional accessories

Tuned to 10 MHz bandwidth with VSWR 1.2:1
Stainless steel construction


NOTES:

- Radiation patterns and gain values at the table are including the effect of supporting pole
- Null fill, beam tilt, harness & feeder losses NOT INCLUDED
- Wind load & weight figures without considering cables, splitters & hardware