

Band II dipole vertical polarization antenna • Side-mounted installation
Electrical Specifications

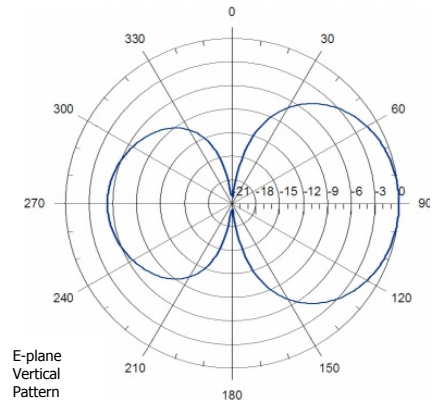
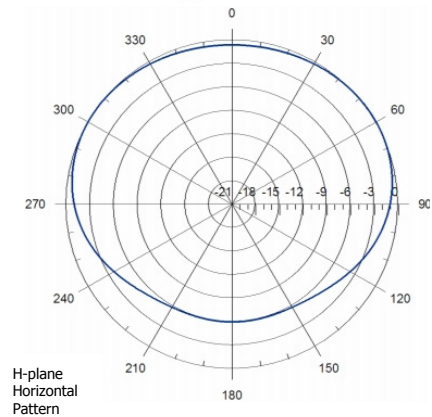
Frequency range	87.5-108 MHz	
Peak gain	0 dB (ref. $\lambda/2$ dipole, free space) 1.75 dB (ref. $\lambda/2$ dipole, with pole)	
3 dB beam width	E-plane: 75°	H-plane: 220°
Polarization	Vertical	
Impedance	50 Ohm	
VSWR	$\leq 1.3:1$	
Maximum power handling	2 kW	
Connector type	DIN 7/16	
Pressurization	Non pressurized	

Mechanical & Environmental Specifications

Materials	Dipole Isolators	Stainless steel PTFE
Dimensions (W x D x H)	85 x 1000 x 1340 mm	
Maximum wind speed	200 km/h	
Wind load	165 N (@160 km/h)	
Weight	10 kg	
Clamp type	To \varnothing 60 – 80 mm pipe	
Vertical spacing	0.8 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	1.8	10	0.17 kN	1340
2	1	4.8	20	0.34 kN	3949
4	1	7.8	40	0.68 kN	9166
6	1	9.5	60	1.02 kN	14383
8	1	10.8	80	1.36 kN	19601
10	1	11.8	100	1.70 kN	24821
12	1	12.6	120	2.04 kN	30039


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.