

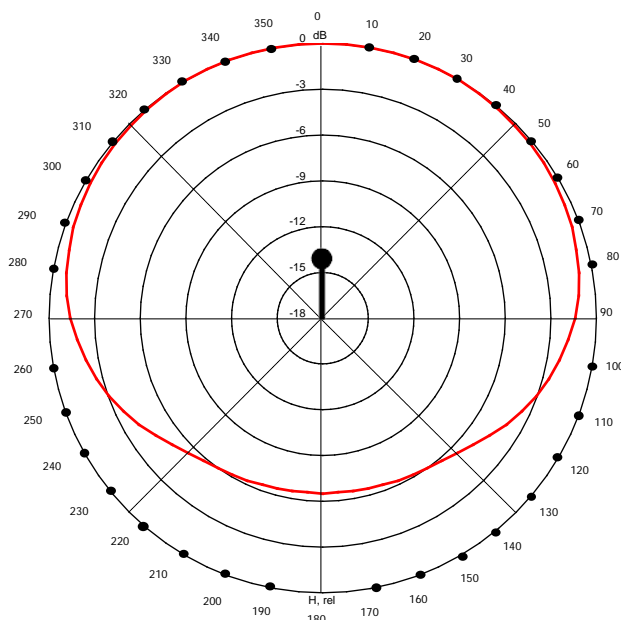
Model "PAFM-VDP-AL"



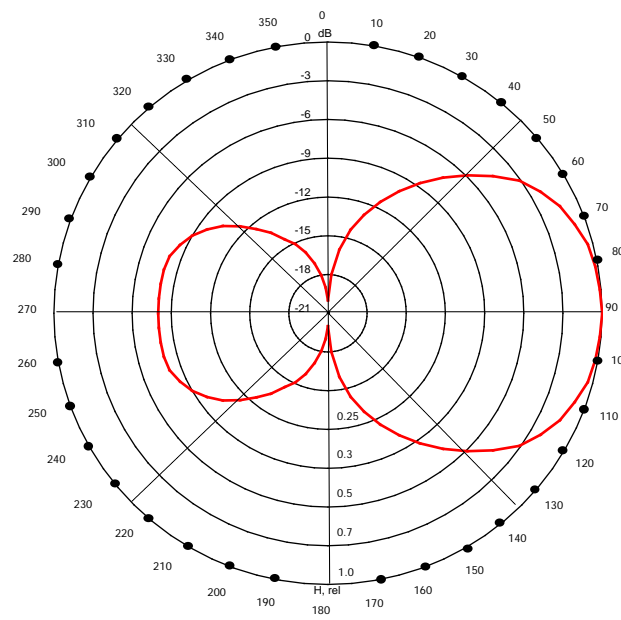
Vertically polarized FM dipole manufactured from 6061-T6 structural aluminum. The PAFM-VDP-AL is factory tuned with a VSWR of less than 1.10:1 on the frequency(s) of use with a gain of 2.0 dBd once installed to a rear support mast.

The PAFM-VDP-AL features removable elements for compact shipping, thus minimal on-site assembly is required.

Electrical



V pol - Horizontal Radiation Pattern (H-Plane)



V pol - Vertical Radiation Pattern (E-Plane)

Frequency Range: 88-108 MHz

Input connector: N (f) / 7-16 DIN (f)

VSWR: < 1.35 across band, or <1.10 frequency tuned

Gain: 2.0 dBd

Polarization: Vertical

Impedance: 50  $\Omega$

Max. input power: 0.5 kW / 2.0 kW

-3dB HPBW (H-Plane): 220 degrees

-3dB HPBW (E-Plane): 70 degrees

### Mechanical

- Exterior material: Aluminum (6061-T6 alloy)
- Interior material: Machined brass and stainless steel
- Dimensions: 1450 mm X 850 mm
- Grounding: Antenna and radiating elements are DC grounded for lightning protection
- Mounting clamps: HDG clamps are included for attachment to customer supplied mast of any OD. Specify when ordering
- Icing protection: Antenna design and feed point radome ensure reliable operation under extreme icing
- Shipping: The antenna is shipped disassembled



# of Bays	Gain (dBd)	Gain (Pr)	Weight (Kg)	Overall Height (meters)	Windload N @ 160 km/h	
					Frontal	Lateral
1	2.0	1.58	5	2.0	130	255
2	5.0	3.16	10	4.6	260	510
3	6.8	4.79	15	7.2	390	765
4	8.0	6.31	20	9.8	520	1020
6	9.8	9.55	30	15.0	780	1530
8	11.0	12.59	40	20.2	1040	2040
12	13.0	19.95	60	30.6	1560	3060

Antenna Height { H } in Meters Antenna Spacing { S } in mm		
No of Bays	H	S
1	2.0	-
2	4.1	2100
3	6.2	2100
4	8.3	2100
6	12.5	2100
8	16.7	2100
12	25.1	2100

