

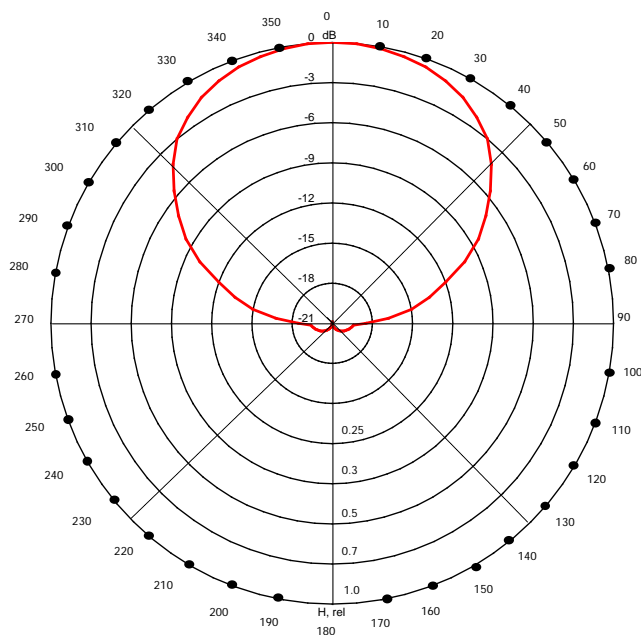
Model "PAFM-BDP"



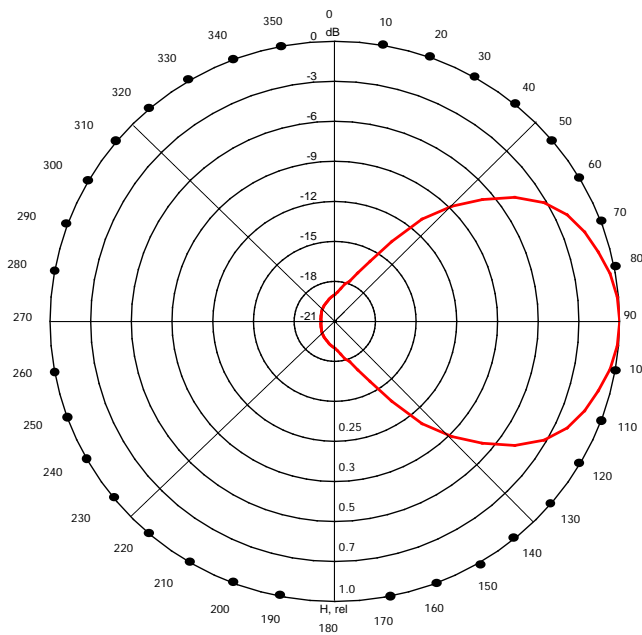
Band II FM panel covering the 88-108 MHz spectrum, horizontally polarized. The 'bent dipoles' creates expanded horizontal plane Hpol beam width, making it ideal for mounting to triangular tower structures. The robust design, with a feed point radome and internal feed conductors, allow this antenna to operate reliably under extreme icing conditions.

Multiple panels can be stacked horizontally or vertically to satisfy required gain or coverage.

Electrical



H pol - Horizontal Radiation Pattern (E-Plane)



H pol - Vertical Radiation Pattern (H-Plane)

Frequency Range: 88-108 MHz

Input connector: N female or 7-16 female

VSWR: < 1.15

Gain: 7.0 dBd

Polarization: Horizontal

Impedance: 50  $\Omega$

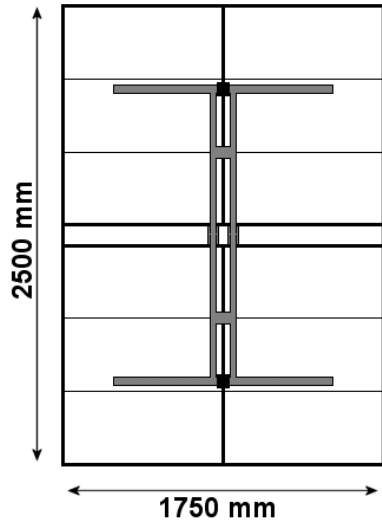
Max. input power: 2 kW

-3dB HPBW (E-Plane): 80 degrees

-3dB HPBW (H-Plane): 56 degrees

### Mechanical

- Exterior material: Hot-dip galvanized steel
- Interior material: Machined brass and stainless steel
- Dimensions: 2500 mm X 1750 mm rear panel grid
- 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. Please specify when ordering
- Icing protection: Antenna design and internal feed ensure reliable operation under extreme icing
- Shipping: The antenna is shipped disassembled



# of Bays	Panels per Bay	Total # of Panels	Gain (dBd)	Gain (Pr)	Weight (Kg)	Overall Height (meters)	Windload kN @ 160 km/h
1	2	2	3.8	2.40	146	2.5	2.8
	3	3	1.7	1.48	219		4.0
2	2	4	6.8	4.79	292	5.7	5.6
	3	6	4.7	2.95	438		8.0
3	2	6	8.6	7.24	438	8.9	8.4
	3	9	6.5	4.47	657		12.0
4	2	8	9.8	9.55	584	12.1	11.2
	3	12	7.7	5.89	876		16.0
6	2	12	11.6	14.45	876	18.5	16.8
	3	18	9.5	8.91	1314		24.0
8	2	16	12.8	19.05	1168	25.0	22.4
	3	24	10.7	11.75	1752		32.0

Antenna Height { H } in Meters Antenna Spacing { S } in mm		
No of Bays	H	S
1	2.5	-
2	5.7	3200
3	8.9	3200
4	12.1	3200
6	18.5	3200
8	25.0	3200

