

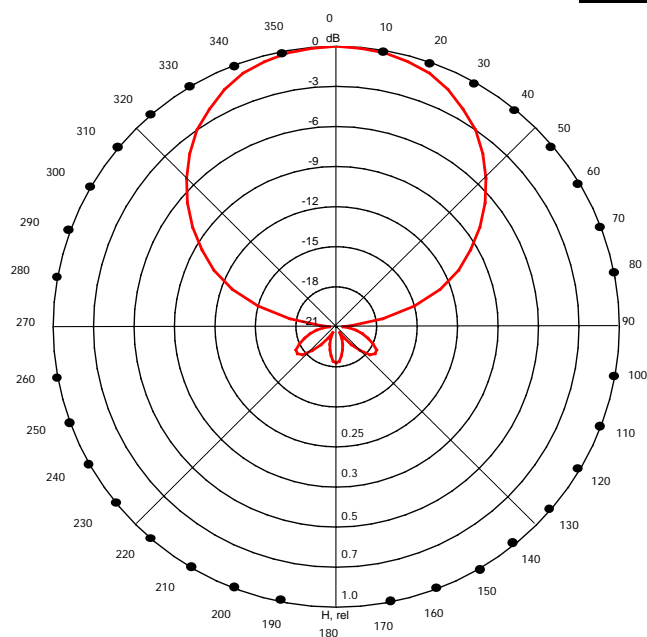
Model "PAFM-SDP"



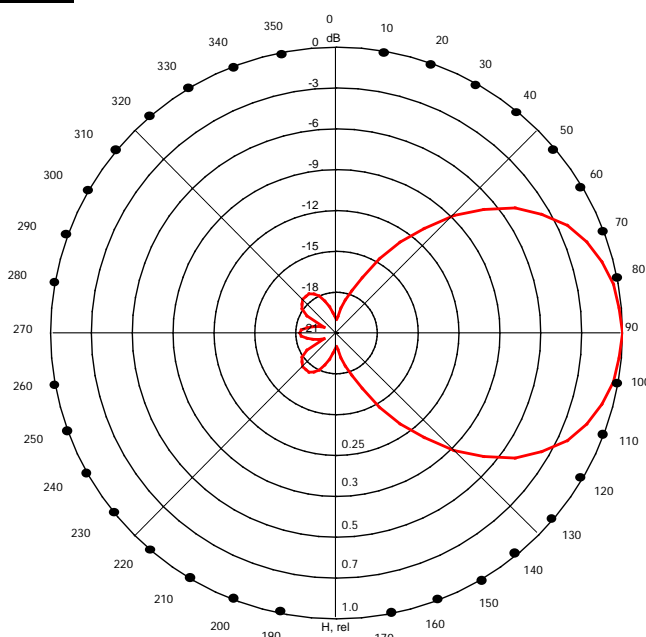
Band II FM panel covering the 88-108 MHz spectrum, horizontally polarized. The straight dipole panel exhibits high gain, ideal for expanded reach where gain is needed. The robust design, with a feed point radome and internal feed conductors, allow this antenna to operate reliably under extreme icing 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: < 1.20

Gain: 7.5 dBd

Polarization: Horizontal

Impedance: 50  $\Omega$

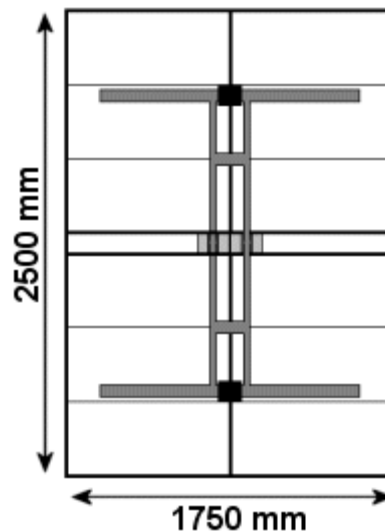
Max. input power: 2 kW

-3dB HPBW (E-Plane): 73 degrees

-3dB HPBW (H-Plane): 58 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	5.0	3.16	116	2.5	2.0
	3	3	3.4	2.19	174		3.0
	4	4	2.0	1.58	232		3.6
2	2	4	8.0	6.31	232	5.7	4.0
	3	6	6.4	4.37	348		6.0
	4	8	5.0	3.16	464		7.2
3	2	6	9.8	9.55	348	8.9	6.0
	3	9	8.2	6.61	522		9.0
	4	12	6.8	4.79	696		10.8
4	2	8	11.0	12.59	464	12.1	8.0
	3	12	9.4	8.71	696		12.0
	4	16	8.0	6.31	928		14.4
6	2	12	12.8	19.05	696	18.5	12.0
	3	18	11.2	13.18	1044		18.0
	4	24	9.8	9.55	1392		21.6
8	2	16	14.0	25.12	928	25.0	16.0
	3	24	12.4	17.38	1392		24.0
	4	32	11.0	12.59	1856		28.8

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

