

Model "PAFM-SDCPB-R"



Circularly polarized FM broadcast antenna spanning the 88-108 MHz FM spectrum. The PAFM-SDCPB-R is the only model in the PAFM-SDCPB family of antennas with removable elements. Removable elements allow smaller shipping size and volume, with some on-site assembly required. Like all the other models in this family of antennas, it is composed of stainless steel and welded at critical joints.

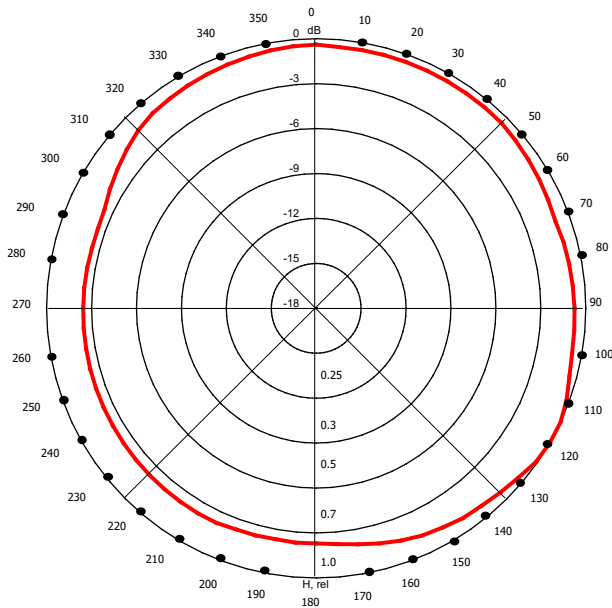
The omnidirectional pattern and circular polarization make this antenna ideal for FM broadcasting in any urban environment. A feed point radome and internal feed conductors allow this antenna to operate reliably under extreme icing conditions.

88-108 MHz

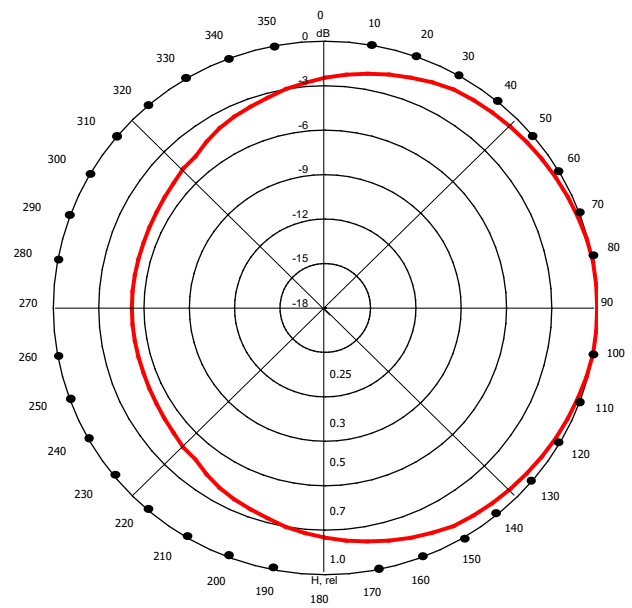
FM Band II



Electrical



Horizontal Pattern - Horizontal Polarization



Horizontal Pattern - Vertical Polarization

Frequency Range: 88-108 MHz

Input connector: N female or 7-16 DIN

VSWR: <1.10 on frequency within 88-108 MHz

Gain: -3.3 dBd Average (single bay)

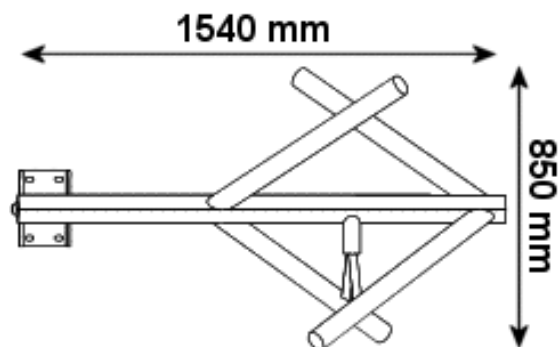
Polarization: Circular

Impedance: 50 Ω

Max. input power: 2 kW per antenna

Mechanical

- Exterior material: Stainless steel
- Interior material: Machined brass and stainless steel
- Dimensions: 1540 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. Please specify when ordering
- Icing protection: Antenna design and internal feed ensure reliable operation under extreme icing.



# of Bays	AVE Gain (dBd)	AVE Gain (Pr)	Weight LBS / KG	Overall Height (Meters)	Projected Area FT ² / M ² (lateral)	Windload kN @ 160 km/h
1	-3.30	0.47	42 / 19	2.0	4.03 / 0.37	0.58
2	-0.10	0.98	84 / 38	4.4	8.06 / 0.75	1.15
3	1.67	1.47	126 / 57	6.8	12.08 / 1.12	1.73
4	2.97	1.98	168 / 76	9.2	16.11 / 1.50	2.31
6	4.73	2.97	252 / 114	14.0	24.17 / 2.25	3.46
8	5.98	3.96	336 / 152	18.8	32.22 / 2.99	4.61
10	6.95	4.96	420 / 190	23.6	40.28 / 3.74	5.77
12	7.74	5.95	504 / 228	28.4	48.33 / 4.49	6.92
16	8.95	7.92	672 / 304	38.0	64.44 / 5.99	9.23

88-108 MHz

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Antenna Height { H } in Meters Antenna Spacing { S } in mm		
No of Bays	H	S
1	2.0	-
2	4.4	2400
3	6.8	2400
4	9.2	2400
6	14.0	2400
8	18.8	2400
10	23.6	2400
12	28.4	2400
16	38.0	2400

