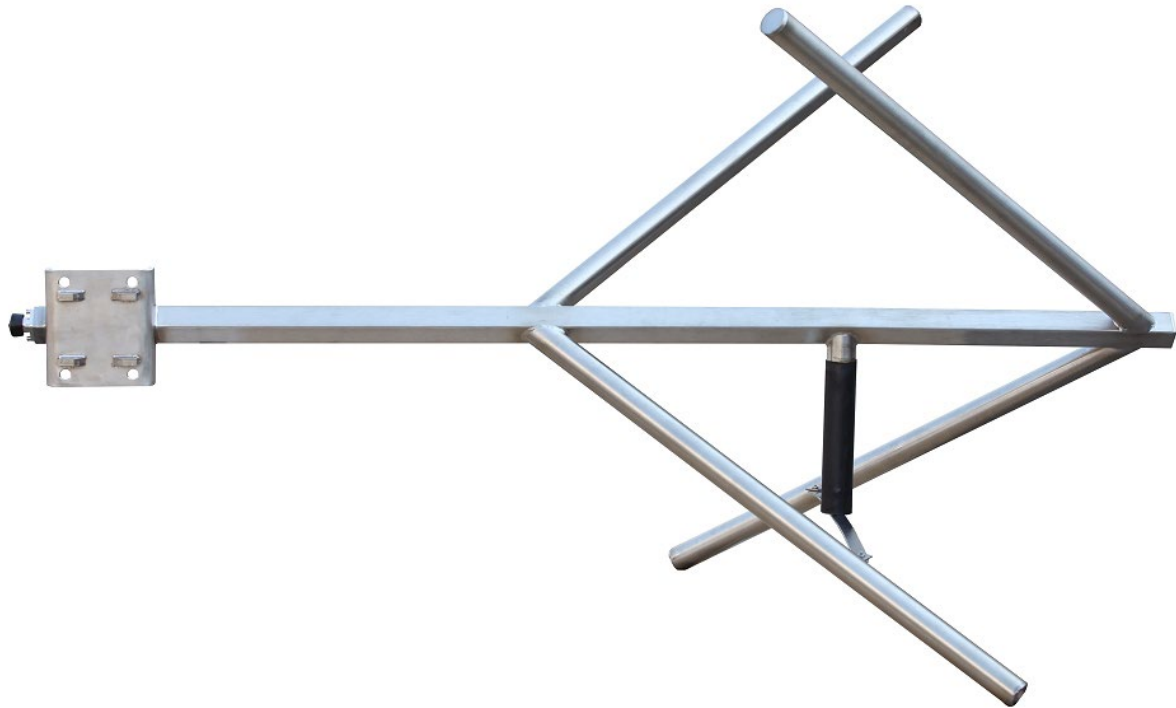


Model "PAFM-SDCPB-L"



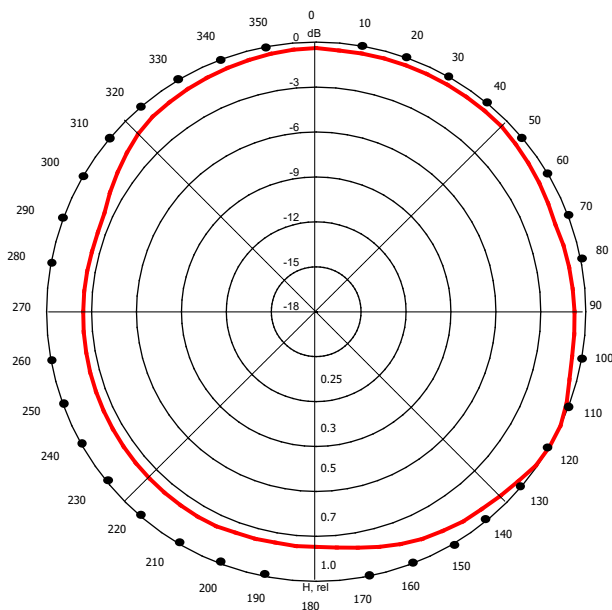
The PAFM-SDCPB-L is a light weight and low wind load FM antenna in the PAFM-SDCPB family of circularly polarized antennas covering the 88-108 MHz spectrum. The omnidirectional pattern and circular polarization make this antenna ideal for FM broadcasting in any environment and especially where local mounting logistics require a smaller wind loading value. The antenna is composed of stainless steel with the elements welded onto the boom and shipped fully assembled. A feed point radome and internal feed conductors allow this antenna to operate reliably under extreme icing conditions.

88-108 MHz

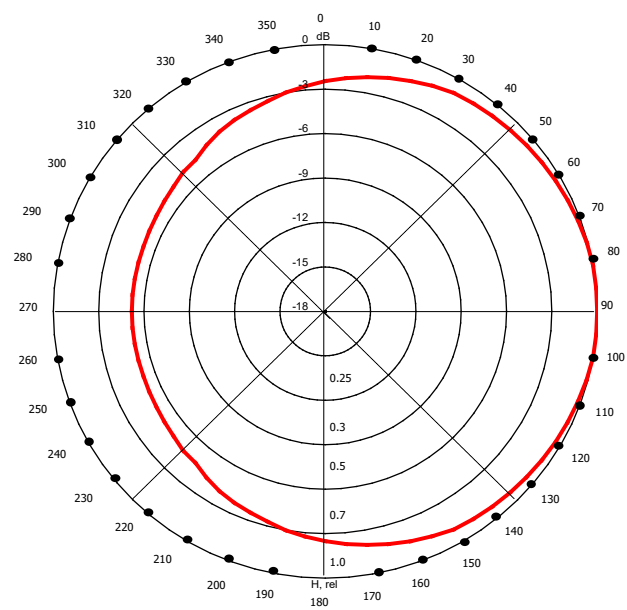
FM Band II



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)

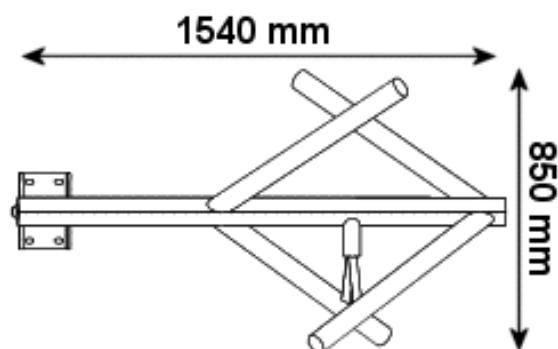
Polarization: Circular

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	37 / 16.8	2.0	3.06 / 0.28	0.44
2	-0.10	0.98	74 / 33.6	4.4	6.13 / 0.57	0.88
3	1.67	1.47	111 / 50.4	6.8	9.2 / 0.85	1.33
4	2.97	1.98	148 / 67.2	9.2	12.3 / 1.14	1.77
6	4.73	2.97	222 / 101	14.0	18.4 / 1.7	2.65
8	5.98	3.96	296 / 134.5	18.8	24.5 / 2.28	3.54
10	6.95	4.96	370 / 168	23.6	30.63 / 2.85	4.42
12	7.74	5.95	444 / 202	28.4	36.8 / 3.41	5.3
16	8.95	7.92	592 / 269	38.0	49 / 4.55	7.08

88-108 MHz

FM Band II

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

