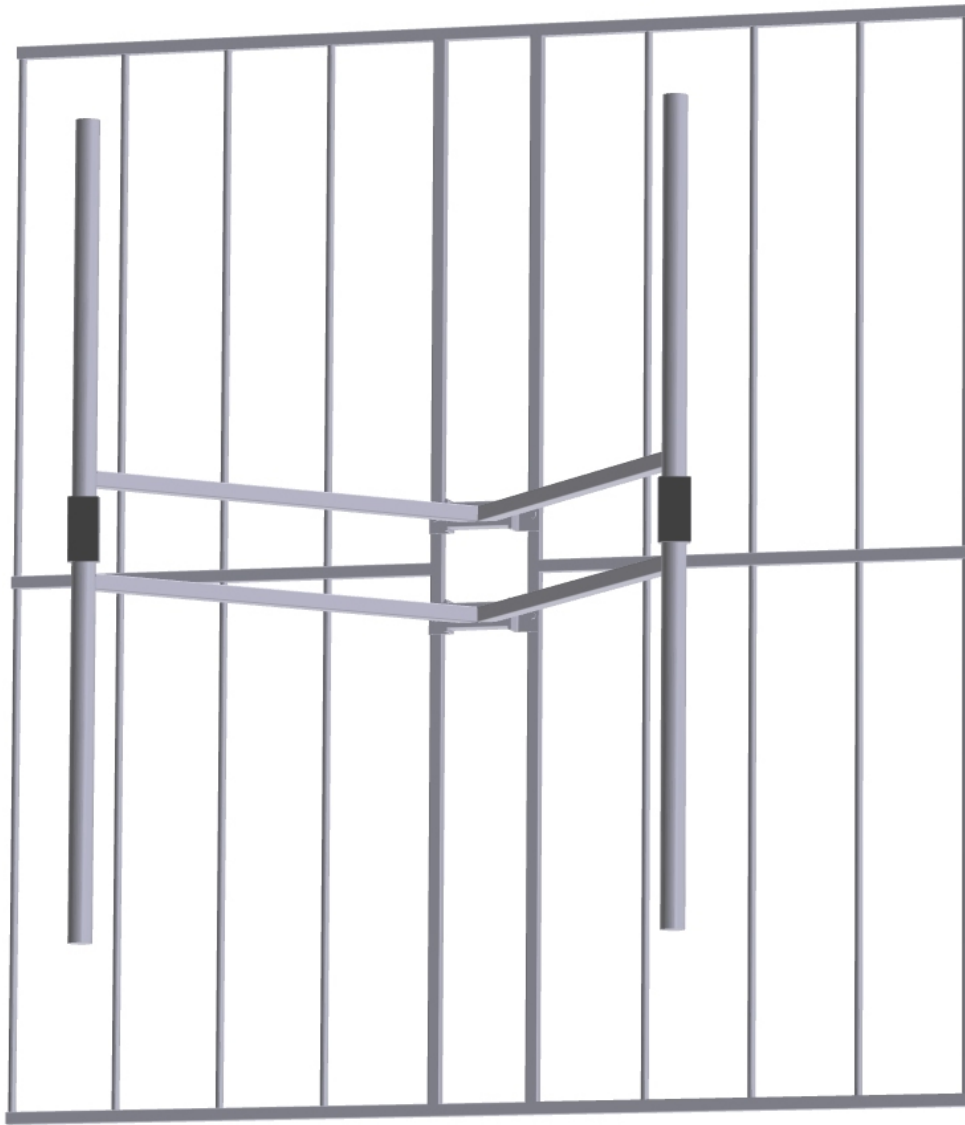


Model "PAFM-VRP"



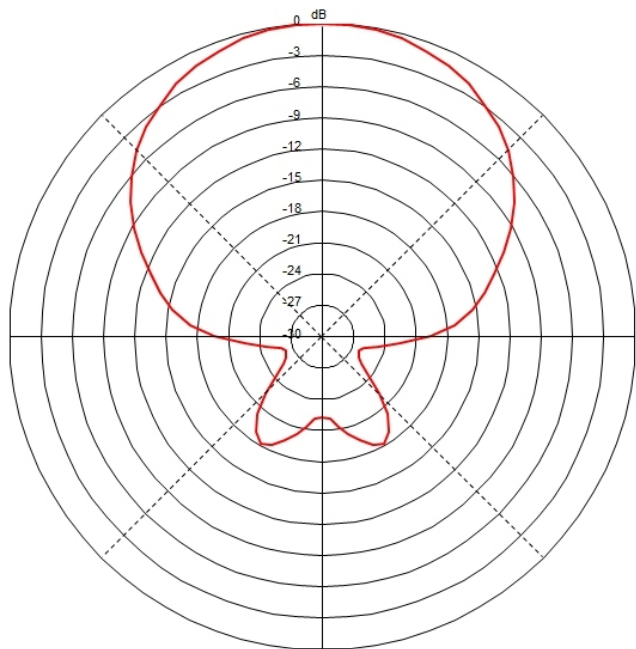
Band II FM panel covering the 88-108 MHz spectrum, vertically polarized. The panel has expanded horizontal plane Vpol beam width, making it ideal for mounting to triangular tower structures. The robust design, with a feed point radome and internal feed conductors, allow this antenna to operate reliably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

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

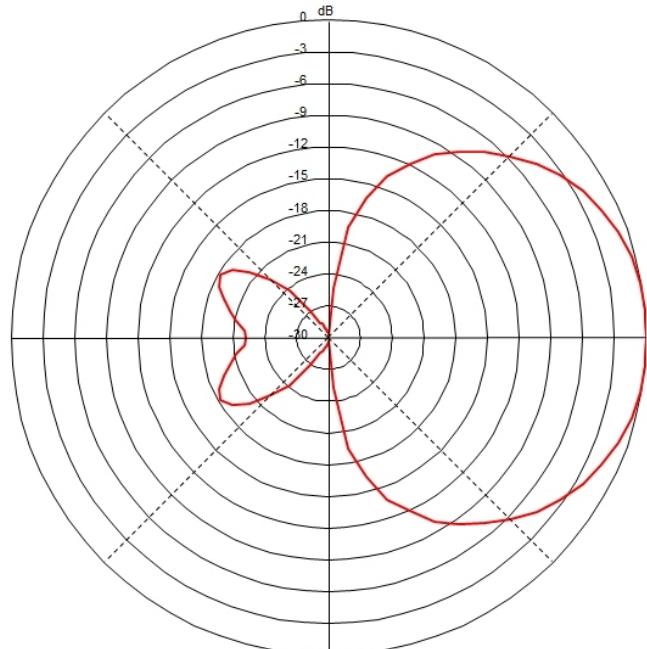
**88-108 MHz**

**FM Band II**

Electrical



V pol - Horizontal Radiation Pattern (H-Plane)



V pol - Vertical Radiation Pattern (E-Plane)

Frequency Range: 88-108 MHz

Input connector: N female or 7-16 female

VSWR: < 1.20

Gain: 6.0 dBd

Polarization: Vertical

Impedance: 50  $\Omega$

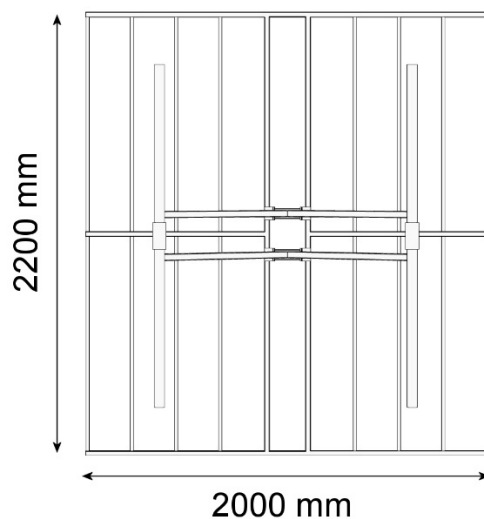
Max. input power: 2 kW

-3dB HPBW (H-Plane): 75 degrees

-3dB HPBW (E-Plane): 69 degrees

## Mechanical

|                    |                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------|
| Exterior material: | Hot-dip galvanized steel                                                                                 |
| Interior material: | Machined brass and stainless steel                                                                       |
| Dimensions:        | 2200 mm X 2000 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         | 1              | 1                 | 6.0        | 3.16      | 40          | 2.2                     | 1.5                    |
|           | 2              | 2                 | 3.4        | 2.19      | 80          |                         | 2.3                    |
|           | 3              | 3                 | 2.0        | 1.58      | 120         |                         | 3.8                    |
| 2         | 1              | 2                 | 8.0        | 6.31      | 80          | 5.2                     | 3.0                    |
|           | 2              | 4                 | 6.4        | 4.37      | 160         |                         | 4.6                    |
|           | 3              | 6                 | 5.0        | 3.16      | 240         |                         | 7.6                    |
| 3         | 1              | 3                 | 9.8        | 9.55      | 120         | 8.2                     | 4.5                    |
|           | 2              | 6                 | 8.2        | 6.61      | 240         |                         | 6.9                    |
|           | 3              | 9                 | 6.8        | 4.79      | 360         |                         | 11.4                   |
| 4         | 1              | 4                 | 11.0       | 12.59     | 160         | 11.2                    | 6.0                    |
|           | 2              | 8                 | 9.4        | 8.71      | 320         |                         | 9.2                    |
|           | 3              | 12                | 8.0        | 6.31      | 480         |                         | 15.2                   |
| 6         | 1              | 6                 | 12.8       | 19.05     | 240         | 17.2                    | 9.0                    |
|           | 2              | 12                | 11.2       | 13.18     | 480         |                         | 13.8                   |
|           | 3              | 18                | 9.8        | 9.55      | 720         |                         | 22.8                   |
| 8         | 1              | 8                 | 14.0       | 25.12     | 320         | 23.2                    | 12.0                   |
|           | 2              | 16                | 12.4       | 17.38     | 640         |                         | 18.4                   |
|           | 3              | 24                | 11.0       | 12.59     | 960         |                         | 30.4                   |

88-108 MHz

FM Band II

| Antenna Height { H } in Meters<br>Antenna Spacing { S } in mm |      |      |
|---------------------------------------------------------------|------|------|
| No of Bays                                                    | H    | S    |
| 1                                                             | 2.2  | -    |
| 2                                                             | 5.2  | 3000 |
| 3                                                             | 8.2  | 3000 |
| 4                                                             | 11.2 | 3000 |
| 6                                                             | 17.2 | 3000 |
| 8                                                             | 23.2 | 3000 |
| 10                                                            | 29.2 | 3000 |
| 12                                                            | 35.2 | 3000 |

