

## FM Sidemount Antennas CPF Series

### Product Description

The CPF series of FM antennas are designed for low wind load, low cost, single channel requirements. These antenna elements are circularly polarized with an omnidirectional pattern. A choice of two input connector sizes provides power ratings of 500 W or 2.5 kW per bay. An optional radome fully enclosing the radiating element is also available for sites where icing is likely. The antennas are designed to be sidemounted to a vertical pole and a wide range of mounting brackets are available for this purpose.

Multiple element arrays are supplied as a complete package including power dividers and distribution cables. An optional input tuner ensures optimum VSWR performance after installation as it enables the effects of tower steelwork to be eliminated. Beam tilt and null fill can be provided on request.



### Features/Benefits

- Single channel operation.
- Rugged stainless steel construction.
- Low cost.
- Low windload.
- Power rating of up to 20kW for an 8 bay antenna.
- Optional radome available for icing conditions.
- Optional Input tuner ensures optimum VSWR.
- Parallel (Corporate) feed network provides low downward radiation.

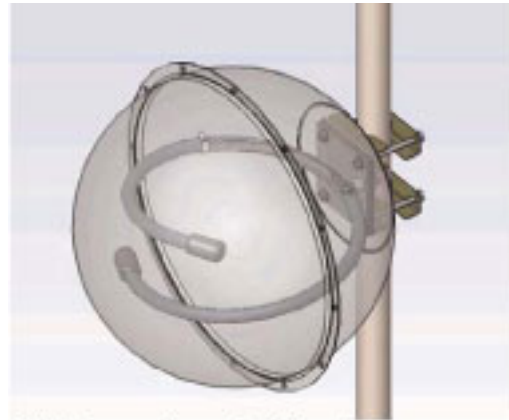
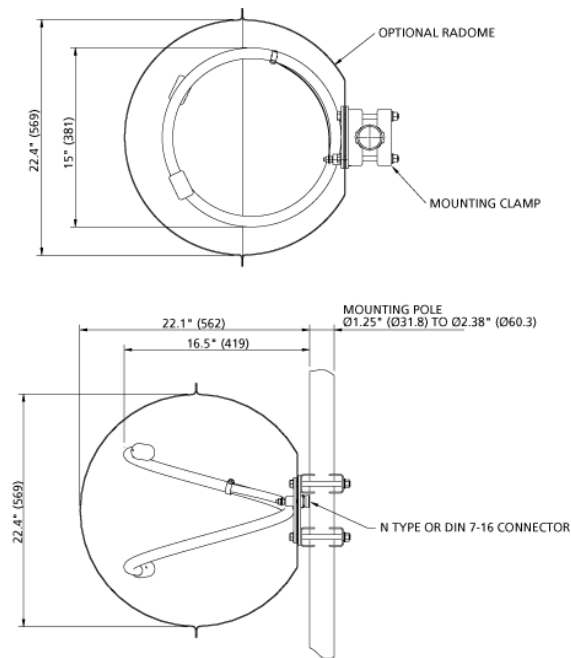
### Technical Specifications

Product Line	Antenna Radio
Product Type	Band II (VHF) FM Sidemount Antennas
Frequency Range, MHz	87.5 - 108
Polarization	Circular
Number of Levels	3
Gain per Plane of Polarization, dBd	1.7
Circularity, dB	+/- 2dB in free space
Return Loss, dB	>20 (typically >26dB)
Input Connector	Single element N type, Array N type; 7/8" EIA
Power Rating, kW	1.5 (7/8" EIA i/p connector)
Impedance, ohms	50 unbalanced
Weight, kg (lb)	17.2 (38)
Mounting (Standard), mm (in)	38 to 64 mm diameter mounting pipe (not supplied)
Effective Area Front (full antenna), sq m (sq ft)	0.17 (1.8)
Effective Area Side (full antenna), sq m (sq ft)	0.033 (0.35) - Single Bay
Material	Stainless Steel

### Notes

### Other Documentation

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CPF Antenna Element with radome  
(Semi transparent radome for illustration  
purposes only)