



SIDEMOUNT FM ANTENNA

The JAMPRO JHPC antenna is the high power version of the PENETRATOR antenna, which has become an industry standard for quality and performance.

Rated at 40 kW maximum inputs, each bay consists of a PENETRATOR style radiating element with a 3-1/8" shunt feed line. Each JHPC is factory tuned to any frequency in the FM Band II (87.5 -108 MHz) range on a tower structure that best simulates the customer's actual tower. Multiple frequency design is also available. The true circular polarization of the JHPC antenna offers excellent performance for HD Radio, stereo and SCA operation. Typical VSWR is 1.1:1 ± 200 kHz.

Radomes

Deicers

FCC Directionalization

Reduced RF Arrays

Pattern Measurement Study

Custom Mounting Brackets Available

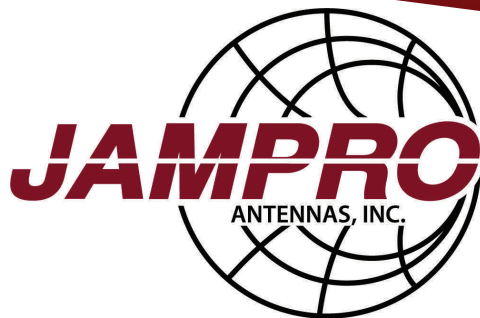
Electrical Beam Tilt

Null Fill

Multi Frequencies



The JHPC antenna is constructed of the highest quality marine brass and copper. A hot dipped – galvanized steel mounting bracket for utmost grounding supports each bay. Standard round leg mounting brackets for uniform face towers are included with each antenna. Silver plated inner conductor connectors are used throughout for maximum contact life and minimum power loss. Each JHPC antenna is DC grounded at every bay for maximum lightning protection. This rugged mechanical construction and mounting ensure the long life and outstanding performance of each JHPC antenna system.



Number of Bays	Power Gain	dB Gain	FS @ 1 Mi.	Max Input Power kW	Weight (lbs)	Wind load (lbs)
1	0.46	-3.37	93.2	10	35	41
Deicers					44	50
Radomes					65	162
2	1.00	0.00	136.7	20	141	203
Deicers					159	227
Radomes					201	445
3	1.50	1.76	168.4	25	226	331
Deicers					253	379
Radomes					345	694
4	2.10	3.22	199.2	30	312	459
Deicers					348	532
Radomes					435	943
5	2.70	4.31	225.2	35	397	587
Deicers					442	683
Radomes					547	1192
6	3.20	5.05	246.0	40	483	714
Deicers					537	835
Radomes					663	1440
8	4.30	6.34	285.2	40	654	970
Deicers					726	1139
Radomes					894	1938
10	5.50	7.40	322.4	40	825	1226
Deicers					915	1444
Radomes					1125	2436
12	6.60	8.20	353.2	40	996	1481
Deicers					1104	1687
Radomes					1356	2933

Notes:

- Weights and wind loads shown include standard leg mounting brackets and feed lines
- Wind loads based on 50/33 PSF (98 MHz, mid-band)
- Feed points, when end fed is 3 ft below bottom bay; when center fed is 9'. 6" below center
- All inputs are EIA flange, female
- Power derating occurs above 2,000 feet elevation. Contact factory for details
- Power and dB gains are typical for horizontal and vertical components
- Special mounting brackets are available
- Other combinations of EIA inputs and power ratings available
- Free space azimuth circularity is ± 2.0 dB
- Polarization is right hand, clockwise circular
- Power gain is based on half wave dipole in free space
- Specifications based on one wave spaced bays, other spacing available

Non-ionizing Radiation:

Since many factors contribute to a station's compliance with the FCC exposure guidelines for radio frequency radiation, JAMPRO ANTENNAS, INC. cannot accept any responsibility in this matter. The station must examine and determine its status based on each individual situation.

*All specifications are subject to change without notice.