



FMEC PLUS SERIES CIRCULAR POLARIZED FM ANTENNAS

Product Specifications:

Frequency Range	88 – 108 MHz
Polarization	Circular
Power Rating	1000 Watts per bay
System Input	7/16" DIN Female
VSWR	1.3:1 ± 150 kHz
Bay Dimensions	H 43.50" / W 38.5" / D 19"

Features:

•**POWER RATING.** Each bay is rated at 1000 watts with a maximum power of 5 kW for four bays.

•**RUGGED CONSTRUCTION.** Each bay is constructed from rugged, heavy wall copper and naval brass. All joints are tig-welded.

•**PRESSURIZATION NOT REQUIRED.**

•**CUSTOM DIRECTIONAL PATTERNS.** FM directional antennas designed to the customer's specified mounting structure and FCC filing documentation are available.

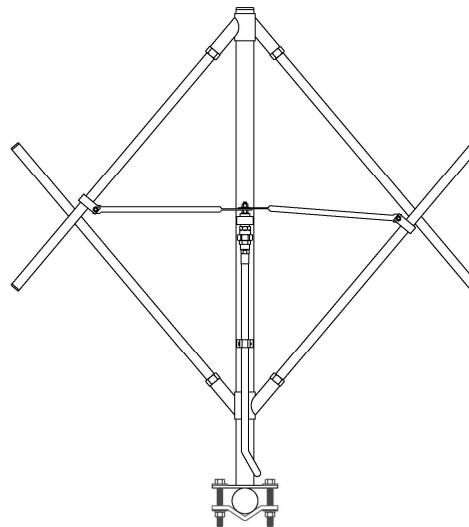
•**WEATHERIZATION (OPTIONAL).** Radomes or electrical deicers available for areas that experience periods of heavy icing and/or snow conditions.

•**STANDARD MOUNTING BRACKETS.** Fits up to 4" tower leg or pipe. Supplied with antenna.

•**WARRANTY.** 2-year limited warranty on defects and workmanship to the original purchaser.

Notes:

1. Power rating is based on 40 degrees C ambient. Degeneration occurs above 2000 ft.
2. Antenna weight, windload, aperture and dimensions are based on mid-band operation (98.1 MHz).
3. Antennas with 3 or more bays come with input power divider.
4. SWR, Inc. maintains a continuous program of product improvement and therefore reserves the right to change specifications without notice.



Full Wave Spaced Electrical and Mechanical Specifications

Bays	Power Rating (watts)	Power Gain	dB Gain	Net. Weight (lbs)	Windload (lbs)
1	1000	0.441	-3.556	15	35
2	2000	0.959	-0.182	35	85
3	3000	1.495	1.746	50	120
4	4000	2.044	3.105	65	155
5	5000	2.590	4.133	80	190
6	5000	3.160	4.997	95	225
8	5000	4.311	6.346	110	260
10	5000	5.456	7.369	130	295

Half Wave Spaced Electrical and Mechanical Specifications

Bays	Power Rating (watts)	Power Gain	dB Gain	Net. Weight (lbs)	Windload (lbs)
1	1000	0.441	-3.556	15	35
2	2000	0.695	-1.580	35	85
3	3000	1.012	0.052	50	120
4	4000	1.313	1.183	65	155
5	5000	1.623	2.103	80	190
6	5000	1.924	2.842	95	225
8	5000	2.528	4.028	110	260
10	5000	3.129	4.954	125	295

3/4 Wave Spaced Electrical and Mechanical Specifications

Bays	Power Rating (watts)	Power Gain	dB Gain	Net. Weight (lbs)	Windload (lbs)
1	1000	0.441	-3.556	15	35
2	2000	0.935	-0.292	35	85
3	3000	1.396	1.449	50	120
4	4000	1.845	2.660	65	155
5	5000	2.301	3.619	80	190
6	5000	2.756	4.403	95	225
8	5000	3.664	5.640	110	260
10	5000	4.590	6.618	125	295