



reliable, durable, customizable, affordable

[broadcast antenna systems]

MODEL PSIFML

LOW POWER SLANT V FM ANTENNA

LOW COST | LOW WEIGHT & WIND AREA | FACTORY TUNED | NO PRESSURIZATION REQUIRED

General Specifications

Element Input: "A" - 'N' Female | "B" - 7/8" EIA | "C" - 7-16 DIN

Power Divider Input: "A" - 7/8" EIA | "B" - 1-5/8" EIA | "C" - 1-5/8" EIA

Polarization: Circular

Physical Characteristics: Copper and Brass

Power Rating: Up to 4.5 kW

Multi-Element Arrays: Up to 6 bays

Frequency Range: 88-108 MHz

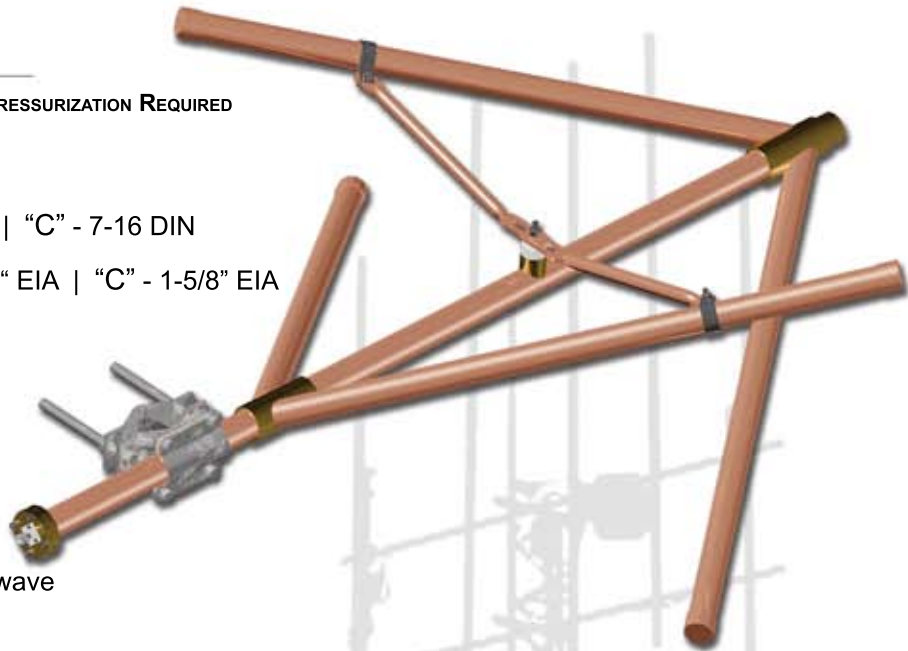
Custom Bay Spacing: Any Between 1/2 and Fullwave

VSWR: < 1.15:1 ±200 kHz

Impedance: 50 ohms

Wind Survival Rating: 124 mph (200 km/h)

Options: Directional Pattern Certification | Electrical Deicers | Breakdown Elements



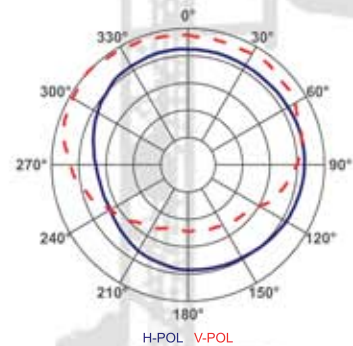
PSIFML antenna model is an omnidirectional, circularly polarized antenna, intended for the low power broadcaster. Rugged copper and brass construction and hot dip galvanized steel brackets make it suitable for any environment. Three input versions are available: "A" - 'N' Female, "B" - 7/8" EIA and "C" - 7-16 DIN.

The antenna is available in a single bay or in arrays of up to 6 bays. For multi-element arrays, each version includes a power divider and cable to accommodate the increased power. Version "A" includes 7/8" EIA power divider and LMR400 coaxial cable, "B" and "C" versions include 1-5/8" EIA power divider and 1/2" corrugated foam cable. Bay spacing can be adjusted to any value between 1/2 and full wave for reduced downward radiation.

Standard with the PSIFML are integral mounting brackets that will accommodate a mast from 1-1/2" to 4" in diameter. Each antenna is fully assembled and the return loss is optimized prior to shipping.

Optional features available are Directional Pattern Certification, Electrical Deicers for areas where icing conditions are frequent or severe and Breakdown Elements for easier export shipment.

Typical Azimuth Pattern Mast Mounted



FM BROADCAST ANTENNAS

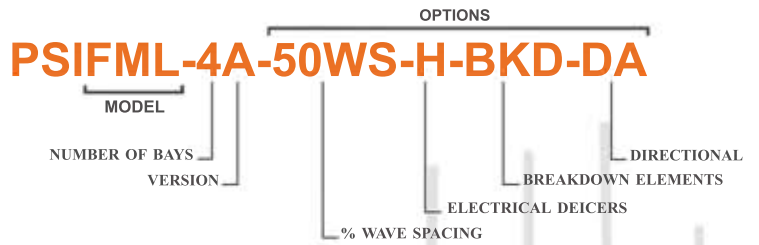


reliable, durable, customizable, affordable

[broadcast antenna systems]

MODEL **PSIFML**
 LOW POWER SLANT V FM ANTENNA

MODEL DESIGNATION



Electrical Specifications

Bays	Gain		Version "A"		Version "B"		Version "C"	
	Power	dBd	Power	Input	Power	Input	Power	Input
1	0.46	-3.37	500 W	N Female	1500 W	7/8" EIA	1000 W	7-16 DIN
2	1.00	0.00	1000 W	7/8" EIA	3000 W	1-5/8" EIA	2000 W	1-5/8" EIA
3	1.50	1.76	1500 W	7/8" EIA	4500 W	1-5/8" EIA	3000 W	1-5/8" EIA
4	2.10	3.22	2000 W	7/8" EIA	4500 W	1-5/8" EIA	4000 W	1-5/8" EIA
5	2.70	4.31	2500 W	7/8" EIA	4500 W	1-5/8" EIA	4000 W	1-5/8" EIA
6	3.20	5.05	3000 W	7/8" EIA	4500 W	1-5/8" EIA	4000 W	1-5/8" EIA

Mechanical Specifications

Bays	Aperture		Weight		Wind Area		Electrical Deicer (s)			
							Weight		Wind Area	
	ft	m	lbs	kg	sq ft	sq m	lbs	kg	sq ft	sq m
1	2.3	0.70	20	9	1.9	0.18	32	15	2.1	0.20
2	10.0	3.06	46	21	4.8	0.45	70	32	5.8	0.54
3	20.1	6.12	66	30	7.3	0.67	102	46	8.9	0.83
4	30.1	9.18	86	39	10.1	0.94	134	61	12.6	1.17
5	40.1	12.24	105	48	13.7	1.27	165	75	16.9	1.57
6	50.2	15.29	126	57	16.4	1.52	198	90	20.3	1.89

NOTES: Antenna specifications are based on full-wave spacing. Please contact the factory for specifications on additional spacing options. Aperture, weight and windload are calculated at 98 MHz. Windarea C_AA_C is calculated in accordance with the ANSI/TIA/EIA 222-F standard. PSI reserves the right to modify the indicated technical specifications at any time without notice.