



MODEL 160FM

FEATURES

The 160FM series of antenna is designed for use in medium to high power FM broadcast transmitter systems.

Wide bandwidth and high power handling ability make it suitable for use in multicoupled transmitter systems.

CONSTRUCTION

The 160FM series of antenna are manufactured using stainless steel tubing with all elements removable to minimize shipping dimensions

Stainless steel hardware is used throughout with a galvanized mounting bracket supplied for attachment to 50mm vertical or horizontal member.

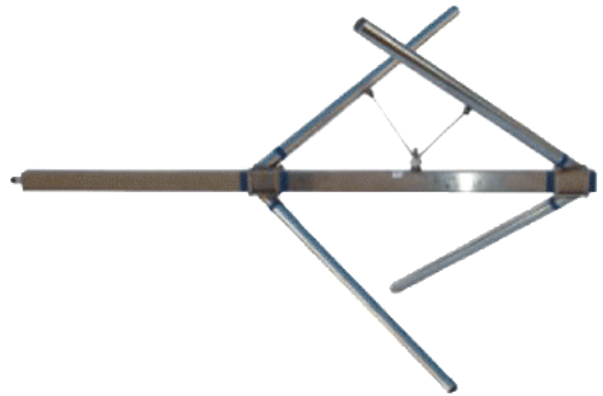
NOTES

Power dividers are available for 2,3,4 bay or greater arrays with input power ratings of 500-2000 watts.

All elements are DC coupled to the mast for maximum lightning protection.

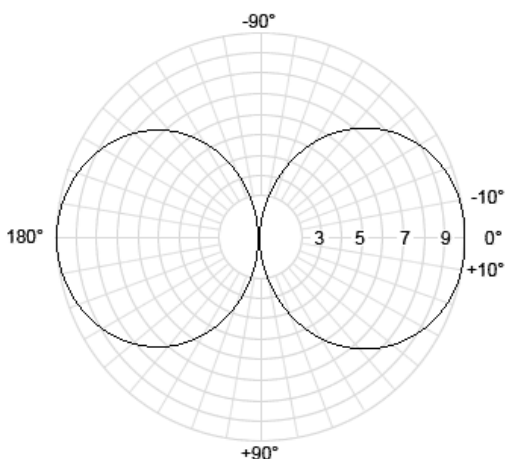
De-icers and feedpoint radomes are available for snow and ice conditions.

Available in other VHF and UHF frequencies.

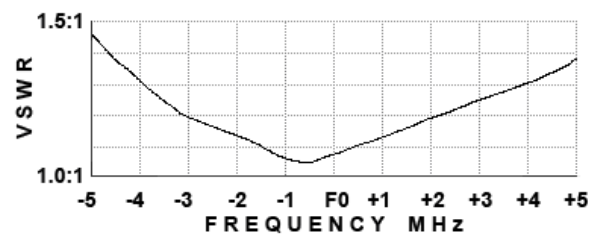


MODEL NO	160FM
FREQUENCY RANGE	87.5 - 108 MHz
IMPEDANCE	50 ohms
BANDWIDTH	7 MHz
VSWR	< 1.3:1
GAIN	-3dBd (gain dipole)
GAIN	UNITY (gain circular)
BEAMWIDTH E	98°
BEAMWIDTH H	BASICALLY OMNI
POWER	500 Watts (input)
LIGHTNING	DC GROUND
TERMINATION	'N' FEMALE
WEIGHT	10kg
DIPOLAS/ELEMENTS	1
BOOM Ø	50mm
BOOM LENGTH	1500 mm
MOUNTING (POSITION)	END
PROJECTED AREA	0.13 m ²
LATERAL THRUST *	0.220 kN (@ 175 km/h)

* In accordance with AS 1170 : Part 2 "SAA Loading Code - Wind Forces"



E plane radiation pattern



Typical VSWR Plot



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