

FM-07

FM YAGI ANTENNA

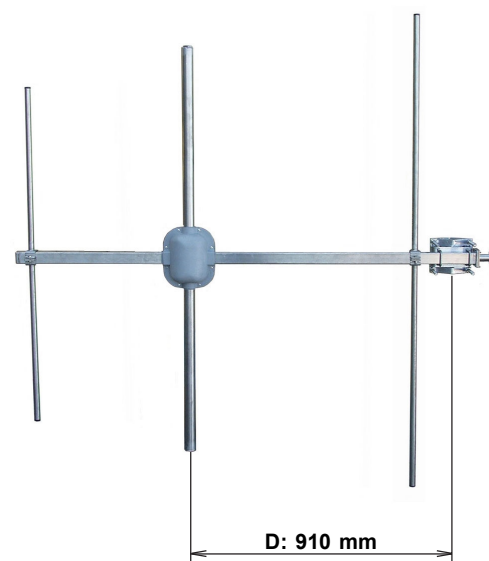


FEATURES

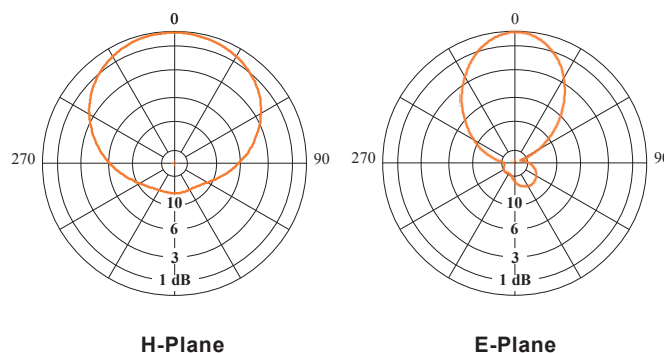
- VERTICAL OR HORIZONTAL POLARIZATION
- BROADBAND 87.5 ÷ 108 MHz
- 4.5 dB GAIN
- DIRECTIONAL PATTERN
- STAINLESS STEEL

ELECTRICAL DATA		
ANTENNA TYPE	FM-07	FM-07/E
FREQUENCY RANGE	87.5 ÷ 108 MHz	
IMPEDANCE	50 ohm	
CONNECTOR	NF or 7/16 F or 7/8" EIA or 7/8" EIA 90°	
MAX POWER	0,75 kW (NF), 3 kW (7/16 F), 5 kW (7/8" EIA), 5 kW (7/8" EIA 90°)	
VSWR	≤ 1.3	
POLARIZATION	Vertical or Horizontal	
GAIN (referred to half wave dipole)	4.5 dB	
HALF POWER BEAMWIDTH	E-Plane ± 32° H-Plane ± 65°	
LIGHTNING PROTECTION	All metal parts DC grounded	

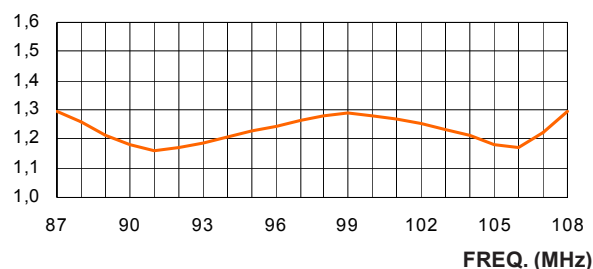
MECHANICAL DATA		
DIMENSIONS	1684x1643x135 mm	1684 x1643 x80 mm
WEIGHT	14 kg	13.5 kg
WIND SURFACE	0.22 m²	0.20 m²
WIND LOAD (at 150 km/h)	0.28 kN	0.25 kN
MAX WIND VELOCITY	220 km/h	
MATERIALS	Dipole (stainless steel) Internal parts (silver plated brass, polished brass, deoxidized aluminium) Radome (fiberglass)	
ICING PROTECTION	Feed point radome (only for FM-07)	
RADOME COLOUR	Gray (standard)	
MOUNTING	With special pipe clamps ø 60 ÷ 114 mm	
PACKING	1890x1820x280 mm	1890x1820x230 mm



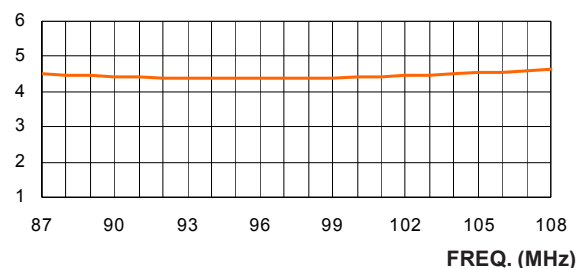
RADIATION PATTERNS (Mid Band)



VSWR



GAIN (dB)



FM-07

FM YAGI ANTENNA



FEATURES

- RADIATING SYSTEMS WITH FM-07SERIES
- DIRECTIONAL PATTERNS
- HIGH POWER SYSTEMS
- BROADBAND $87.5 \div 108$ MHz

ELECTRICAL DATA

FREQUENCY RANGE	87.5 ÷ 108 MHz
IMPEDENCE	50 ohm
CONNECTOR	EIA flange according to system power rating
POWER RATING	The antenna system can accept any power according to requirements
VSWR	≤ 1.25 in the operating frequency
POLARIZATION	Vertical or Horizontal
GAIN	According to requirement
VERTICAL PATTERN	Null fill, beam tilt and special requirements to order
OTHER FEATURES	The antenna system can be supplied in split feed configuration (two equal halves). Each half can accept full power.

MECHANICAL DATA

HEIGHT OF ARRAY	Subject to number of bays
TOTAL NET WEIGHT	Refer to table
WIND LOAD	Refer to table
PRESSURIZABLE	Yes
RADOME COLOUR	Gray (standard)
MOUNTING HARDWARE	One clamp for pole, supplied
SHIPPING	As required

TECHNICAL DATA

NUMBER OF BAYS	PANELS PER BAY	GAIN dB (1)	GAIN TIMES (1)	WEIGHT kg (FM-07)	WEIGHT kg (FM-07/E)	ANTENNA HEIGHT L m	WIND LOAD kN (2) (FM-07)	WIND LOAD kN (2) (FM-07/E)
2	1	7.5	5.6	32	31	4.3	0.56	0.50
4	1	10.5	11.2	64	62	9.5	1.12	1.00
6	1	12.2	16.6	96	93	14.7	1.68	1.50
8	1	13.5	22.3	128	124	19.9	2.24	2.00
12	1	15.2	33.2	192	186	30.3	3.36	3.00

(1) referred to half wave dipole. Attenuation of connecting cables not taken into account.

(2) v= 150 km/h

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