

FMC-06

FM TOP OR SIDEMOUNT DIPOLE

FEATURES

- circular/elliptical polarization
- broadband 87.5 ÷ 108 MHz



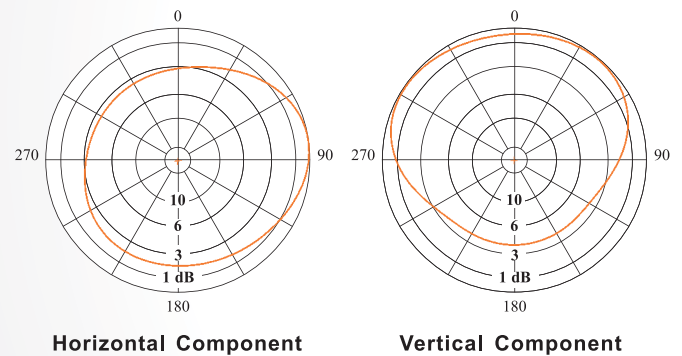
ELECTRICAL DATA

ANTENNA TYPE	FMC-06	FMC-06/P
FREQUENCY RANGE	87.5 ÷ 108 MHz	
IMPEDANCE	50 ohm	
CONNECTOR	7/8" EIA	1-5/8" EIA
MAX POWER	7.5 kW	12.5 kW
VSWR	≤ 1.4	
POLARIZATION	Circular/Elliptical	
GAIN (referred to half wave dipole)	-1.5 dB	
HALF POWER BEAMWIDTH	Omnidirectional ± 1.5 dB in free space Omnidirectional ± 2 dB with ø 100 pole	
LIGHTNING PROTECTION	All metal parts DC grounded	

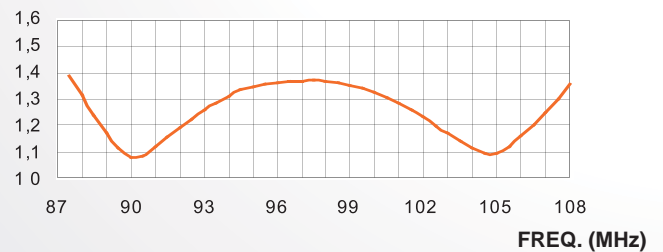
MECHANICAL DATA

DIMENSIONS	1550 x 846 x 846 mm	
WEIGHT	22.5 kg	23.5 kg
WIND SURFACE	0.34 m ²	
WIND LOAD (at 150km/h)	0.44 kN	
MAX WIND VELOCITY	220 km/h	
MATERIALS	brass, aluminium, stainless steel, hot dip galvanized steel (bracket) teflon, fiberglass (radome)	
ICING PROTECTION	Feed point radome	
RADOME COLOUR	Grey (standard)	
MOUNTING	With special pipe clamps ø 75 ÷ 150 mm	

RADIATION PATTERNS (Mid Band)



VSWR



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FEATURES

- radiating systems with FMC-06 dipole
- omnidirectional patterns

ELECTRICAL DATA

FREQUENCY RANGE	87.5 ÷ 108 MHz
IMPEDANCE	50 ohm
CONNECTOR	EIA flange according to system power rating
POWER RATING	The antenna system can accept any power according to requirements
VSWR	≤ 1.2 ≤ 1.1 (can be optimised in the operating frequency, on request)
POLARIZATION	Circular/Elliptical
GAIN	Refer to table
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	Grey (standard)
MOUNTING HARDWARE	One clamp for pole, supplied

TECHNICAL DATA

NUMBER OF BAYS	PANELS PER BAY	GAIN (1)	GAIN (1)	WEIGHT (2)	ANTENNA HEIGHT L (m)	WIND LOAD (3)
2	1	1.5	1.41	55	3.45	0.88
4	1	4.5	2.82	115	8.65	1.76
6	1	6.2	4.17	175	13.85	2.64
8	1	7.5	5.62	260	19.05	3.52
12	1	9.2	8.32	385	29.45	5.28

(1) referred to half wave dipole. Losses of power distribution network not included.

(2) without mounting hardware, for FMC-06 dipole

(3) v= 150 km/h

