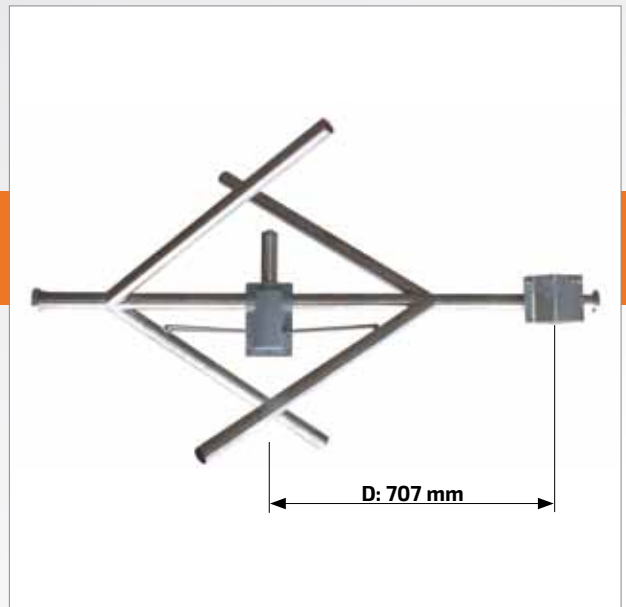


FMC-01

FM TOP OR SIDEMOUNT DIPOLE

FEATURES

- circular/elliptical polarization
- broadband 87.5 ÷ 104 MHz
92 ÷ 108 MHz



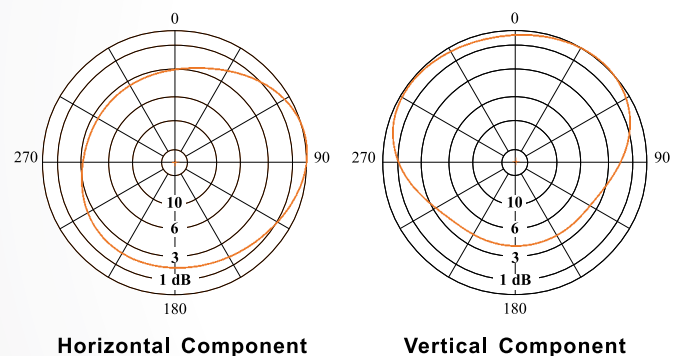
ELECTRICAL DATA

ANTENNA TYPE	FMC-01
FREQUENCY RANGE	87.5 ÷ 104 MHz 92 ÷ 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), 1.5 kW (7/16 F, 7/8" EIA, 7/8" EIA 90°)
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

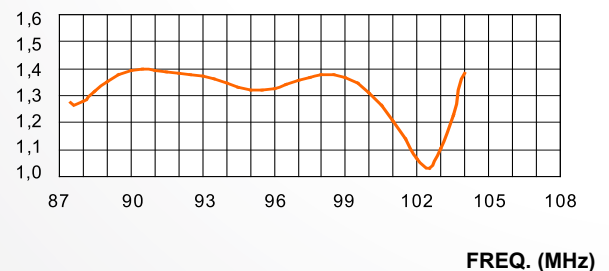
MECHANICAL DATA

DIMENSIONS	1447 x 801 x 801 mm 1447 x 767 x 767 mm
WEIGHT	10 Kg
WIND SURFACE	0.23 m ²
WIND LOAD (at 150km/h)	0.27 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 60 ÷ 114 mm

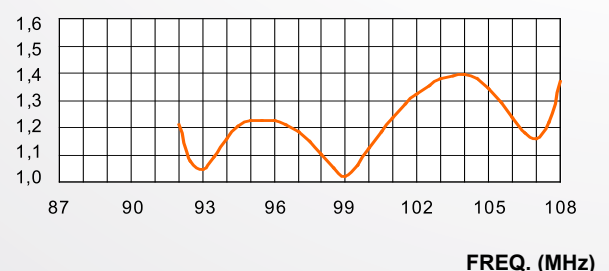
RADIATION PATTERNS (Mid Band)



VSWR



VSWR



FMC-01

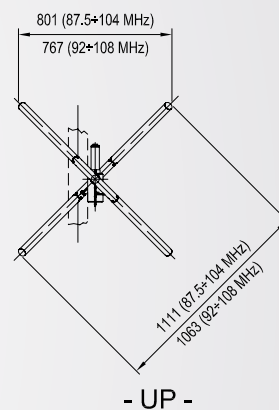
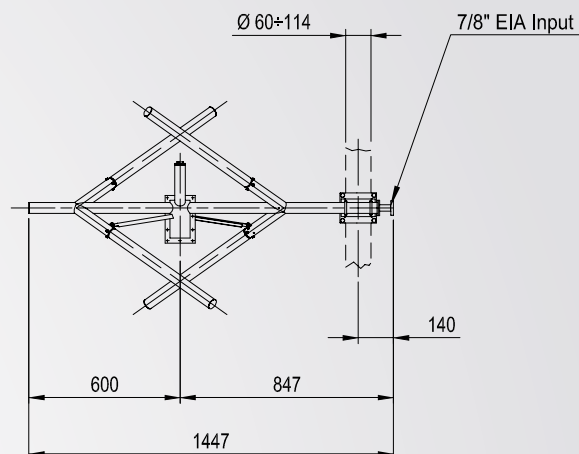
FM TOP OR SIDEMOUNT DIPOLE

FEATURES

- radiating systems with FMC-01 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 (in the operating frequency)	≤ 1.35 without fine matcher
	≤ 1.25 with one fine matcher
	≤ 1.1 with two fine matchers
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 TIMES (1)	WEIGHT (2)	ANTENNA HEIGHT (3)	WIND LOAD (3)
2	1	1.5	1.41	30	3.4	0.54
4	1	4.5	2.82	55	8.6	1.08
6	1	6.2	4.17	80	13.8	1.62
8	1	7.5	5.62	120	19.0	2.16
12	1	9.2	8.32	180	29.4	3.24

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

(2) without mounting hardware, for FMC-01 dipole

(3) v= 150 km/h

