FM-04 FM DIPOLE ANTENNA

FEATURES

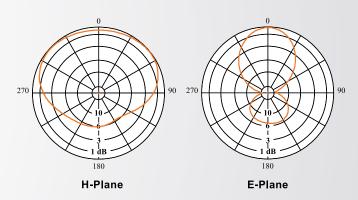
- vertical polarization
- broadband 87.5 ÷ 108 MHz
- 2 dB gain
- omnidirectional pattern with preferred direction
- stainless steel



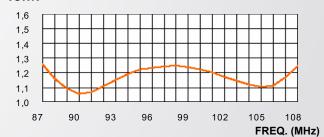
ELECTRICAL DATA			
ANTENNA TYPE	FM-04		
FREQUENCY RANGE	87.5 ÷ 108 MHz		
IMPEDANCE	50 ohm		
CONNECTOR	NF or 7/16 F or 7/8" EIA or 7/8" EIA 90°		
MAX POWER	0,75 kW (NF), 3 kW (7/16 F),		
MAX POWER	5 kW (7/8" EIA), 5 kW (7/8" EIA 90°)		
VSWR	≤ 1.25 TYPICAL		
POLARIZATION	Vertical		
GAIN (referred to half wave dipole)	2 dB		
HALF POWER BEAMWIDTH	E-Plane ± 37°		
	H-Plane ± 105°		
LIGHTNING PROTECTION	All metal parts DC grounded		

MECHANICAL DATA		
DIMENSIONS	1138 x 1442 x 136 mm	
WEIGHT	10 kg	
WIND SURFACE	0.14 m ²	
WIND LOAD (at 150 km/h)	0.18 kN	
MAX WIND VELOCITY	220 km/h	
	External parts (stainless steel,	
	nickel plated brass)	
MATERIALS	Internal parts (silver plated brass,	
	polished brass, deoxidized aluminium)	
	Radome (fiberglass)	
ICING PROTECTION	Feed point radome	
RADOME COLOUR	Grey (standard)	
MOUNTING	With special pipe clamps ø 60 ÷ 114 mm	

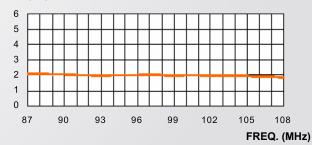
RADIATION PATTERNS (Mid Band)



VSWR



GAIN (dB)





FM-04 **FM DIPOLE ANTENNA**

FEATURES

- radiating systems with FM-04
- omnidirectional patterns with preferred direction
- high power systems

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	≤ 1.25 in the operating frequency			
POLARIZATION	Vertical			
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
PRESSURIZZABLE	Yes
RADOME COLOUR	Grey (standard)
MOUNTING HARDWARE	One clamp for pole, supplied

TECHNICAL DATA						
NUMBER	PANELS	GAIN	GAIN	WEIGHT	ANTENNA	WIND LOAD
OF	PER	dB	TIMES	kg	HEIGHT L	kN
BAYS	BAY	(1)	(1)	(2)	m	(3)
2	1	5	3.16	27	4.0	0.36
4	1	8	6.31	54	9.2	0.72
6	1	9.8	9.55	81	14.4	1.08
8	1	11	12.59	108	19.6	1.44
12	1	12.8	19.05	162	30.0	2.16

(1) referred to half wave dipole. Losses of power distribution network not included. (2) without mounting hardware. (3) v= 150 km/h

