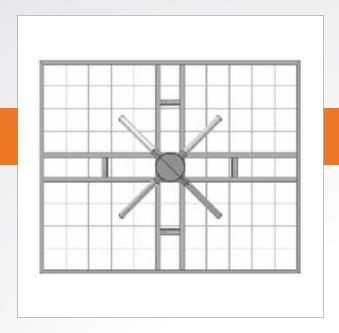
FEATURES

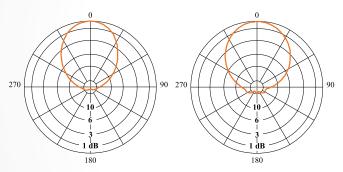
- circular polarization
- broadband 87.5 ÷ 108 MHz
- 2.5 dB gain
- directional pattern
- suitable as a component in various arrays on triangular towers
- stainless steel dipoles



ELECTRICAL DATA			
ANTENNA TYPE	FMC-05		
FREQUENCY RANGE	87.5 ÷ 108 MHz		
IMPEDANCE	50 ohm		
CONNECTOR	2 x 7/8" EIA		
MAX POWER 10 kW (5KW per dipole)			
VSWR	≤ 1.15 (in circular polarization)		
POLARIZATION	Circular		
	2.5 dB (Circular polarization)		
GAIN (referred to half wave dipole)	5.5 dB (Linear polarization)		
HALF POWER BEAMWIDTH	Horizontal component: ± 38°		
	Vertical component: ± 42°		
LIGHTNING PROTECTION	All Metal Parts DC Grounded		

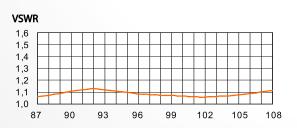
MECHANICAL DATA				
DIMENSIONS	2200 x 1800 x 1134 mm			
WEIGHT	82 kg			
WIND SURFACE	0.9 m ²			
WIND LOAD (at 150km/h)	1.28 kN			
MAX WIND VELOCITY	220 km/h			
	Reflector (hot dip galvanized steel)			
	Dipoles (stainless steel)			
MATERIALS	Internal parts (silver plated brass,			
	polished brass)			
	Radome (fiberglass)			
ICING PROTECTION	Feed point radome			
RADOME COLOUR	Grey (standard)			
MOUNTING	Directly on supporting mast			

RADIATION PATTERNS (Mid Band)

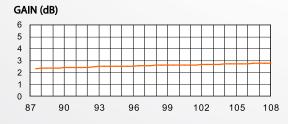


Horizontal Component

Vertical Component



FREQ. (MHz)

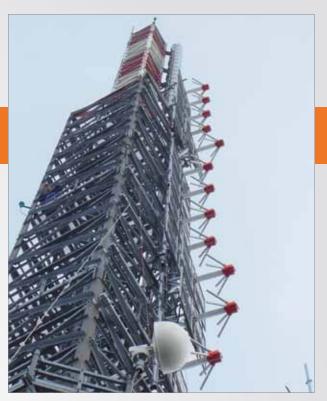


FREQ. (MHz)



FEATURES

- radiating systems with FMC-05 panel on triangular towers
- high power systems
- omnidirectional or directional patterns
- equal or unequal split ratio power distribution network
- broadband 87.5 ÷108 MHz



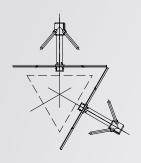
FMC-05/12 VALCAVA, ITALY

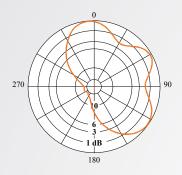
ELECTRICAL DATA			
FREQUENCY RANGE	87.5 ÷ 108 MHz		
IMPEDANCE	50 ohm		
CONNECTOR	EIA flange according to system power rating		
POWER RATING	The antenna system can accept		
	any power according to requirements		
VSWR	1.15 Throughout the frequency range (Lower figures for individual channels on request)		
POLARIZATION	Circular / Elliptical on request		
GAIN	Refer to table		
HORIZONTAL PATTERN	Any type 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		

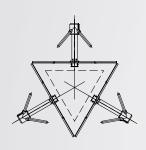
MECHANICAL DATA	
HEIGHT OF ARRAY	Subject to number of bays
TOTAL NET WEIGHT	Refer to table
WIND LOAD	Refer to table
PRESSURIZZABLE	Yes
RADOME COLOUR	Grey (standard)
MOUNTING HARDWARE	Available upon request

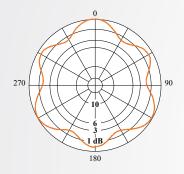


HORIZONTAL PATTERNS WITH 2 AND 3 FACES AT 98 MHz



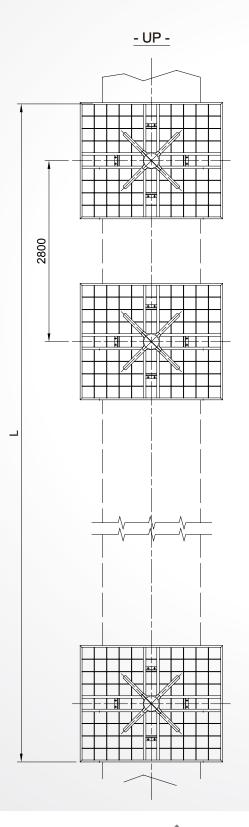






TECHN	ICAL DAT	A				
NUMBER	PANELS	GAIN	GAIN	WEIGHT	ANTENNA	WIND LOAD
OF	PER	dB	TIMES	kg	HEIGHT L	kN
BAYS	BAY	(1)	(1)	(2)	m	(3)
1	2	- 0.4	0.91	192	1.8	2.36
	3	- 2.2	0.60	278		2.55
	1	5.6	3.63	192	4.6	2.58
2	2	2.6	1.82	364		4.72
	3	0.8	1.20	586		5.10
	1	8.6	7.24	364	10.2	5.16
4	2	5.6	3.63	788		9.44
	3	3.8	2.40	1112		10.2
	1	10.6	11.48	586		7.74
6	2	7.6	5.75	1112	15.8	14.16
	3	5.8	3.81	1698		15.30
8	1	11.8	15.14	788		10.32
	2	8.8	7.59	1526	21,4	18.88
	3	7.0	5.01	2264		20.4







DIMENSIONAL DETAILS

VERTICAL PATTERN

