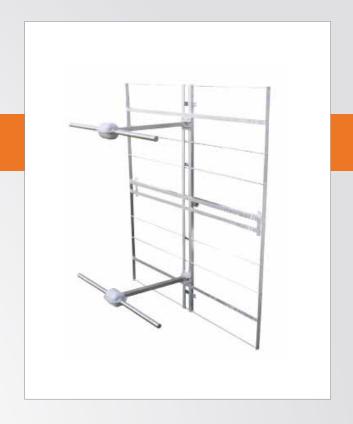
FM-03 (Horizontal polarization) FM PANEL ANTENNA

FEATURES

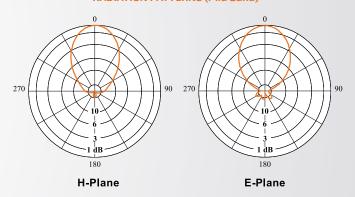
- horizontal polarization
- broadband 87.5 ÷ 108 MHz
- 7.5 dB gain
- directional pattern
- suitable as a component in various arrays on square towers
- stainless steel dipoles
- suitable also for vertical polarization



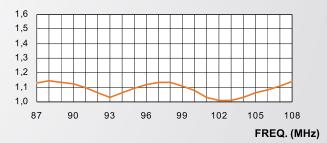
ELECTRICAL DATA ANTENNA TYPE FM-03 FREQUENCY RANGE 87.5 ÷ 108 MHz IMPEDANCE 50 ohm CONNECTOR 7/16 F or 7/8" EIA MAX POWER 3 kW (7/16 F), 5 kW (7/8" EIA) **VSWR** ≤ 1.15 POLARIZATION Horizontal GAIN (referred to half wave dipole) 7.5 dB E-Plane $\pm 34^{\circ}$ HALF POWER BEAMWIDTH H-Plane ± 30° LIGHTNING PROTECTION All Metal Parts DC Grounded

MECHANICAL DATA			
DIMENSIONS	2200 x 2000 x 991 mm		
WEIGHT	61 kg		
WIND SURFACE	0.77 m ²		
WIND LOAD (at 150 km/h)	1.1 kN		
MAX WIND VELOCITY	270 km/h		
	Reflector (hot dip galvanized steel)		
	Dipoles (stainless steel)		
MATERIALS	Internal parts (silver plated brass,		
	polished brass, deoxidized aluminium)		
	Radome (fiberglass)		
ICING PROTECTION	Feed point radome		
RADOME COLOUR	Grey (standard)		
MOUNTING	Directly on supporting mast		

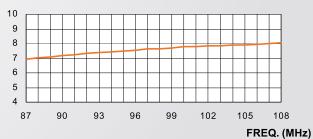
RADIATION PATTERNS (Mid Band)







GAIN (dB)





FM-03 (Horizontal polarization) FM PANEL ANTENNA

FEATURES

- radiating systems with FM-03 panel
- high power systems
- omnidirectional or directional patterns
- equal or unequal split ratio power distribution network



FM-03/32 (8x4) GUANGZHOU, P.R.C.

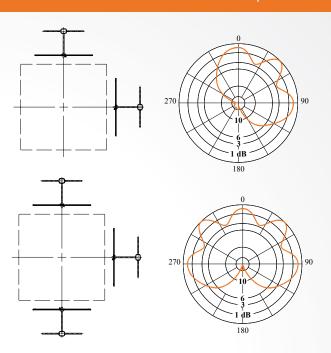
ELECTRICAL DATA				
FREQUENCY RANGE	87.5 ÷ 108 MHz			
IMPEDANCE	50 ohm			
CONNECTOR	EIA flange according to system power rating			
POWER RATING	The antenna system can accept			
	any power according to requirements			
VSWR	≤ 1.2 Throughout the frequency range (Lower figures for individual channels on request)			
POLARIZATION	Horizontal			
GAIN	Refer to table			
HORIZONTAL PATTERN	Any type according to requirement			
VERTICAL PATTERN	Null fill, beam tilt and special			
VERTICAL PATTERIN	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

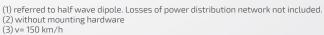


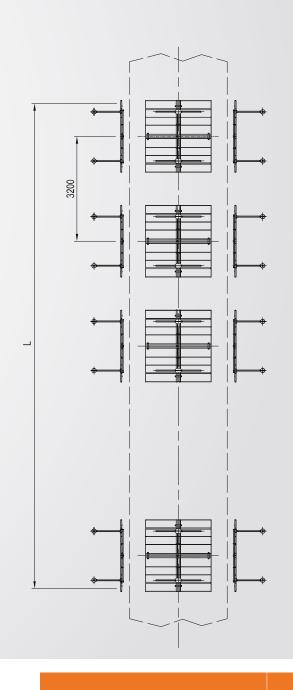
FM-03 (Horizontal polarization) **FM PANEL ANTENNA**

HORIZONTAL PATTERNS WITH 2, 3 AND 4 FACES AT 98 MHZ



TECHN	ICAL DAT	Ā				
NUMBER	PANELS	GAIN	GAIN	WEIGHT	ANTENNA	WIND LOAD
OF	PER	dB	TIMES	kg	HEIGHT L	kN
BAYS	BAY	(1)	(1)	(2)	m	(3)
	2	5.2	3.3	138		2.10
1	3	3.6	2.3	207	2.2	2.56
	4	2	1.6	283		2.92
	1	11.2	13.2	138		2.20
2	2	8.2	6.6	283	Γ/ι	4.19
Ζ	3	6.6	4.6	433	5.4	5.13
	4	5.2	3.3	588		5.84
	1	14.2	26.3	283	11.8	4.40
4	2	11.2	13.2	588		8.38
4	3	9.6	9.1	880		10.26
	4	8.2	6.6	1086		11.68
	1	16	39.8	433		6.60
C	2	13	20	880	18.2	12.58
6	3	11.4	13.8	1250		15.40
	4	10	10	1670		17.53
	1	17.4	55	588	24.6	8.80
8	2	14.4	27.5	1086		16.77
	3	12.6	18.2	1670		20.53
	4	11.4	13.8	2175		23.37



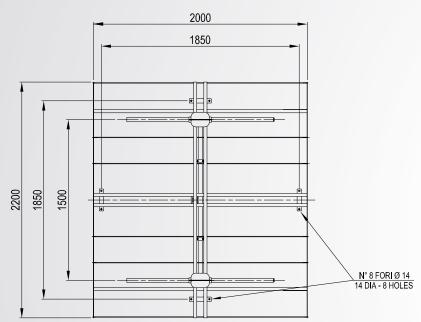


FM-03 (Horizontal polarization) FM PANEL ANTENNA

DIMENSIONAL DETAILS

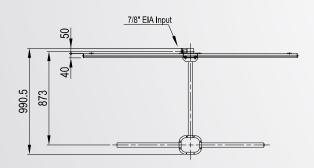
VERTICAL PATTERN

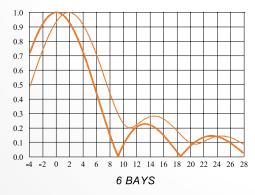
----- Without null fill
With null fill and beam tilt

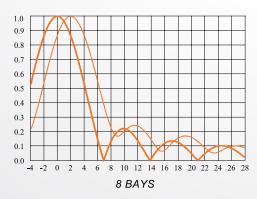














FM-03 (Vertical polarization) FM PANEL ANTENNA

FEATURES

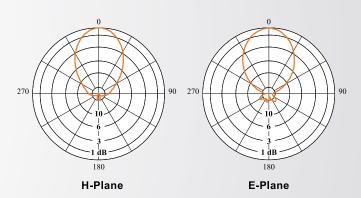
- vertical polarization
- broadband 87.5 ÷ 108 MHz
- 7.5 dB gain
- directional pattern
- suitable as a component in various arrays on square towers
- stainless steel dipoles
- suitable also for horizontal polarization



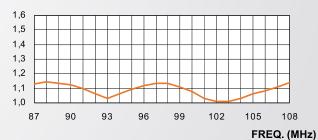
ELECTRICAL DATA ANTENNA TYPE FM-03 FREQUENCY RANGE 87.5 ÷ 108 MHz IMPEDANCE 50 ohm CONNECTOR 7/16 F or 7/8" EIA MAX POWER 3 kW (7/16 F), 5 kW (7/8" EIA) **VSWR** ≤ 1.15 POLARIZATION Vertical 7.5 dB GAIN (referred to half wave dipole) E-Plane ± 34° HALF POWER BEAMWIDTH H-Plane $\pm 30^{\circ}$ LIGHTNING PROTECTION All Metal Parts DC Grounded

MECHANICAL DATA			
DIMENSIONS	2000 x 2200 x 991 mm		
WEIGHT	61 kg		
WIND SURFACE	0.77 m ²		
WIND LOAD (at 150 km/h)	1.1 kN		
MAX WIND VELOCITY	270 km/h		
	Reflector (hot dip galvanized steel)		
	Dipoles (stainless steel)		
MATERIALS	Internal parts (silver plated brass,		
	polished brass, deoxidized aluminium)		
	Radome (fiberglass)		
ICING PROTECTION	Feed point radome		
RADOME COLOUR	Grey (standard)		
MOUNTING	Directly on supporting mast		

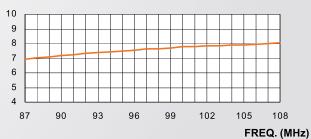
RADIATION PATTERNS (Mid Band)



VSWR



GAIN (dB)





FM-03 (Vertical polarization) FM PANEL ANTENNA

FEATURES

- radiating systems with FM-03 panel
- high power systems
- omnidirectional or directional patterns
- equal or unequal split ratio power distribution network



FM-03/10 (4+4+2) ROSETO CAPO SPULICO, ITALY

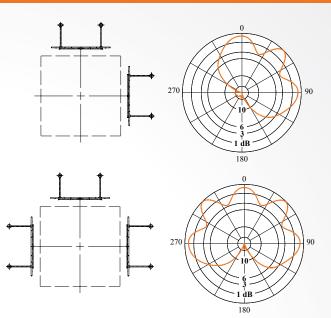
ELECTRICAL DATA			
FREQUENCY RANGE	87.5 ÷ 108 MHz		
IMPEDANCE	50 ohm		
CONNECTOR	EIA flange according to system power rating		
POWER RATING	The antenna system can accept		
	any power according to requirements		
VSWR	≤ 1.2 Throughout the frequency range (Lower figures for individual channels on request)		
POLARIZATION	Vertical		
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.		

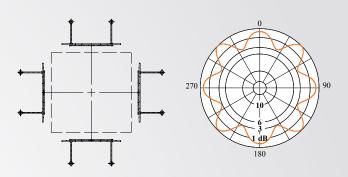
MECHANICAL DATA	
HEIGHT OF ARRAY	Subject to number of bays
TOTAL NET WEIGHT	Refer to table
WIND LOAD	Refer to table
PRESSURIZZABLE	Yes
RADOME COLOUR	Grey (standard)
MOUNTING HARDWARE	Available upon request



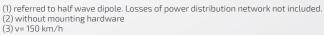
FM-03 (Vertical polarization) **FM PANEL ANTENNA**

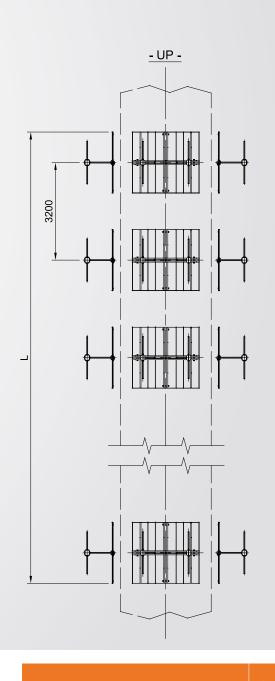
HORIZONTAL PATTERNS WITH 2, 3 AND 4 FACES AT 98 MHz





TECHN	ICAL DAT	Ά				
NUMBER	PANELS	GAIN	GAIN	WEIGHT	ANTENNA	WIND LOAD
OF	PER	dB	TIMES	kg	HEIGHT L	kN
BAYS	BAY	(1)	(1)	(2)	m	(3)
	2	5	3.2	138		2.10
1	3	3.2	2.1	207	2	2.56
	4	2	1.6	283		2.92
	1	10.9	12.3	138		2.20
2	2	8	6.3	283	5.2	4.19
Ζ	3	6.2	4.2	433	5.2	5.13
	4	5	3.2	588		5.84
	1	13.9	24.5	283		4.40
4	2	11	12.6	588	11.6	8.38
4	3	9.2	8.3	880	11.0	10.26
	4	8	6.3	1086		11.68
	1	15.6	36.3	433		6.60
6	2	12.7	18.6	880	18	12.58
Ü	3	10.9	12.3	1250		15.40
	4	9.7	9.3	1670		17.53
	1	17	50.1	588	24.4	8.80
0	2	14	25.1	1086		16.77
8	3	12.2	16.6	1670		20.53
	4	11	12.6	2175		23.37





FM-03 (Vertical polarization) FM PANEL ANTENNA

DIMENSIONAL DETAILS

VERTICAL PATTERN

