FM-05H FM PANEL ANTENNA

FEATURES

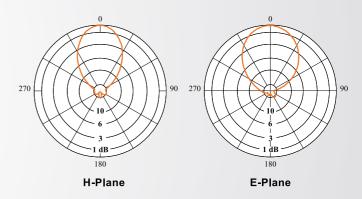
- horizontal polarization
- broadband 87.5 ÷ 108 MHz
- 6.5 dB gain
- directional pattern
- suitable as a component in various arrays on triangular towers
- stainless steel dipoles



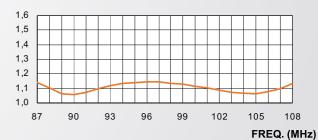
ELECTRICAL DATA			
ANTENNA TYPE	FM-05H		
FREQUENCY RANGE	87.5 ÷ 108 MHz		
IMPEDANCE	50 ohm		
CONNECTOR	7/8" EIA		
MAX POWER	5 kW		
VSWR	≤ 1.15		
POLARIZATION	Horizontal		
GAIN (referred to half wave dipole)	6.5 dB		
HALF POWER BEAMWIDTH	E-Plane ± 38°		
HALF POWER BEAMWIDTH	H-Plane ± 28°		
LIGHTNING PROTECTION	All Metal Parts DC Grounded		

MECHANICAL DATA				
DIMENSIONS mm (in)	2500 x 1700 x 1113			
	(98.43 x 66.93 x 43.82)			
WEIGHT kg (lb)	kg (lb) 62 (136.7)			
WIND SURFACE m² (ft²)	1.34 (14.4) front			
	1.00 (10.76) side			
WIND LOAD kN (lbf)	1.65 (371) front			
at 160 km/h (100 mph) 1.25 (281) side				
MAX WIND VELOCITY km/h (mph)	270 (167.8)			
	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			

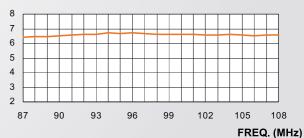
RADIATION PATTERNS (Mid Band)



VSWR



GAIN (dB)





FM-05H FM PANEL ANTENNA

FEATURES

- radiating systems with FM-05H panel
- high power systems
- omnidirectional or directional patterns
- equal or unequal split ratio power distribution network
- broadband 87.5 ÷ 108 MHz



FM-05H/12 (4x3) SLUPSK, POLAND

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 frequencies on request)		
POLARIZATION	Horizontal		
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.		

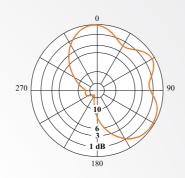
MECHANICAL DATA	
HEIGHT OF ARRAY	Subject to number of bays
TOTAL NET WEIGHT	Refer to table
WIND LOAD	Refer to table
PRESSURIZABLE	Yes
RADOME COLOUR	Grey (standard)
MOUNTING HARDWARE	Available upon request

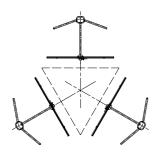


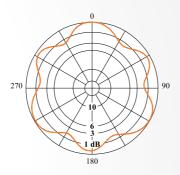
FM-05H **FM PANEL ANTENNA**

HORIZONTAL PATTERNS WITH 2, 3 FACES AT 98 MHz



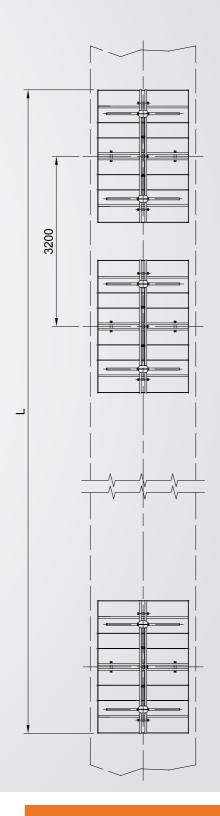






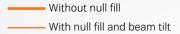
TECHN	IICAL DA	ГА				
NUMBER OF BAYS	PANELS PER BAY	GAIN dB (1)	GAIN TIMES (1)	WEIGHT (2) kg (lb)	ANTENNA HEIGHT L m (ft)	WIND LOAD (3) kN (lbf)
1	2 3	3.3 1.6	2.1 1.4	140 (309) 210 (463)	2.5 (8.2)	2.23 (501) 2.50 (562)
2	1 2 3	9.5 6.5 4.8	8.9 4.5 3.0	140 (309) 287 (633) 438 (966)	5.7 (18.7)	2.38 (535) 4.47 (1005) 5.00 (1124)
4	1 2 3	12.7 9.7 8.0	18.6 9.3 6.3	287 (633) 596 (1314) 892 (1967)	12.1 (39.7)	4.77 (1072) 8.93 (2008) 10.00 (2248)
б	1 2 3	14.5 11.5 9.8	28.2 14.1 9.6	438 (966) 892 (1967) 1260 (2778)	18.5 (60.7)	7.16 (1610) 13.4 (3012) 15.00 (3372)
8	1 2 3	15.8 12.8 11.1	38.0 19.0 12.9	596 (1314) 1102 (2429) 1695 (3737)	24.9 (81.7)	9.55 (2147) 17.87 (4017) 20.03 (4503)

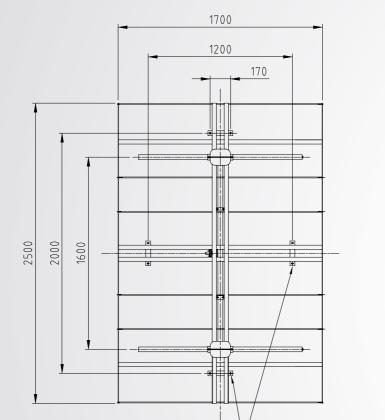


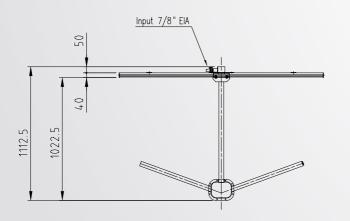


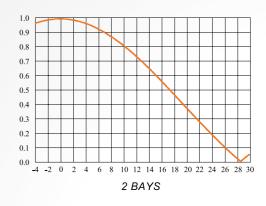
DIMENSIONAL DETAILS

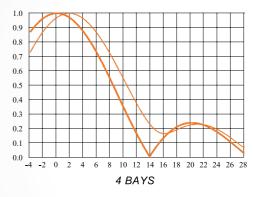
VERTICAL PATTERN

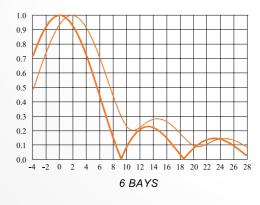


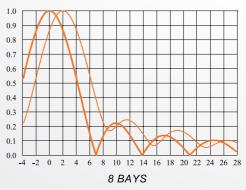












14 mm dia. Fixing holes (8)