TELECOMUNICAZIONIFERRARA RVRGROUP

Model AJ1FENA

BROADBAND COST EFFECTIVE DIPOLE LOW WEIGHT HIGH PERFORMANCE

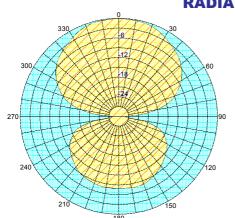
- Model A1JFENA AJ1FEA6 AJ1FEA7
- Band II dipole
- Broadband 87.5÷108 MHz
- 2 dBd gain
- Vertical polarization
- Omni directional pattern
- Aluminium anticorodal

ELECTRICAL DATA

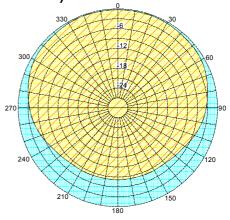
Frequency range 8	ency range 87.5÷108 MHz				
Impedance	50 Ohm				
Connectors	N (AJ1FENA) – 7/16 female (AJ1FEA6) – 7/8 EIA (AJ1FEA7)				
Max Power	800W (N) – 2KW (7/16" - 7/8" EIA)				
VSWR	≤ 1.35:1 Average				
Polarization	Vertical				
Gain	2 dB (referred to half-wave dipole) at 98 MHz				
Pattern	Omni directional ± 1.5 dB in free space Omni directional ± 3 dB with 100mm diameter pole				
Lightning protection	All metal parts DC grounded				



MECHANICAL DATA					
Dimensions	1400x900x50 mm				
Weight	4 kg with hardware mounting				
Wind surface	0.05m2				
Wind load	9.8 kg (wind speed at 160 km/h – without radome)				
Max wind velocity	220 km/h.				
Materials	External parts: Aluminium anticorodal Internal parts: brass Radome: fiberglass (optional)				
Icing protection	Feed point radome (optional)				
Radome (optional)	Color white				
Mounting	With special pipe clamps 40÷110 mm diameter				



RADIATION PATTERN (MID BAND)

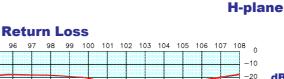


dB

-30 -40 -50

E-plane

92 93 94





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Freq. in MHz



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Broad Band Cost Effective Antenna Systems with the AJ1FENA

Omni - directional pattern

ELECTRICAL DATA				
Frequency range	87.5÷108 MHz			
Impedance	50 Ohm			
Connector	EIA flange according to system power rating			
VSWR	≤ 1.35:1 Max			
Polarization	Vertical			
Gain	According to requirement			
Horizontal pattern	Any type according to the customer			
	requirements			
Vertical pattern	Null fill, beam tilt and special requirements on			
	demand			
Other facilities	The antenna system can be supplied in split			
	feed with			
	two equal half antennas. Each half can accept			
	full power			

MECHANICAL DATA

Height of array	Subject to number of bays (refer to table)		
Total net weight	Refer to table		
Wind load	Refer to table		
Pressurizzable	Yes (on demand)		
Radome colour	White (optional)		
Mounting hardware	Hot dip galvanized steel clamps		
Shipping	As required		

TECHNICAL DATA

Number Dipole of per bays bay	Gain ¹		Weight ²	Antenna	Wind load	
		dB	times	kġ	height L m	(v=160 km/h) kg
1	1	2.0	1.6	4	1.4	9.8
2	1	5.0	3.2	8	4.0	19.6
4	1	8.0	6.3	16	9.2	39.2
6	1	9.8	9.5	24	14.4	58.8
8	1	11.0	12.7	32	19.6	78.4

¹ Referred to half wave dipole. Attenuation of connecting cables not taken into account. ² Without mounting hardware.

³ Systems comprise: antennas, cables and splitter – for more details look on catalog – different versions on demand

> Gain is provided for vertical polarisation.

> When antenna is pole mounted on the top of a tower the horizontally polarized radiation pattern is omni - directional.

> If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR.

Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.

- Sain will be reduced if null fill, beam tilt or special wavelength spacing are provided.
- > Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- > A length of five ft(1.6mt) of pipe is required above the top bay and below the bottom bay to protect from pattern interference by other antennas.
- Antenna wind load is calculated for 100 Mph (160Km/h) per EIA-222-C standard.



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