Model AJ1E - AJ1EBI - AJ1E/INOX - AJ1E/IT

- High Power Version (H.P.)
- FM Band 87.5 108 MHz
- Suitable for VHF, Band I-II-III and OIRT Band
- Gamma Match Tuned
- Omni directional pattern
- Vertical polarization
- Light Low Cost Demountable



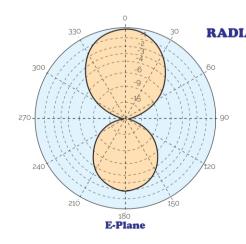


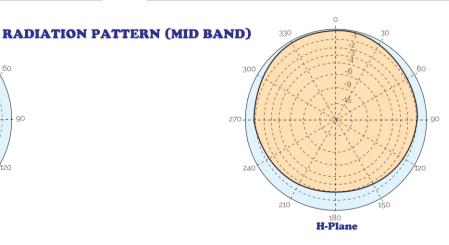


VERSION STANDARD

ELECTRICAL DATA					
Frequency range	87.5 – 108 mhz				
Impedance	50 Ohm				
Connectors	N or 7/16" female or 7/8" EIA				
Max Power	650W (N) - 1300W (7/16" - H.P. Version)				
VSWR	≤ 1.1:1 in the operating channel				
Polarization	Vertical				
Gain	1 dB (referred to half-wave dipole)				
Pattern	Omni directional ± 1,5 dB in free space Omni directional ± 3 dB with 100mm dia. pole				
Lightning protection	No DC grounded				

MECHANICAL DATA								
Dimensions	According to the working frequency 1380 (H) x 760 (L) x 100 (W) mm at 98 MHz stand							
Weight	According to the working frequency (aluminium or stainless steel)							
Wind surface	0.05 m² (at 98 MHz) standard version							
Wind load	6.7 kg (wind speed at 160 km/h standard version							
Max wind velocity	200 km/h (AJ1E/IT model)							
AJ1E: Aluminium elements and be AJ1E/INOX: Stainless steel elements and be AJ1E/IT: Stainless steel elements and be AJ1								
Icing protection	Feed point radome (optional)							
Radome	Optional							
Mounting	With special pipe clamps 50 – 110 mm. Diameter.							





"These specifications are subject to change without notice"



Model AJ1E - AJ1EBI - AJ1E/INOX - AJ1E/IT

Radiations systems with AJ1E antenna Omni-directional pattern

ELECTRICAL DATA					
Frequency range	87.5 – 108 mhz.				
Impedance	50 Ohm				
Connector	EIA flange according to system power rating				
VSWR	≤1.1:1 Max				
Polarization	Vertical				
Gain	According to requirement				
Horizontal pattern	Any type according to requirements				
Vertical pattern	Null fill, beam tilt and special requirements to order				
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	According to the working frequency				
Wind load	Refer to table (at 98 MHz)				
Pressurizzable	No				
Radome	Optional				
Mounting hardware	Hot dip galvanized steel clamps				
Shipping	As required				



TECHNICAL DATA

Number of	Dipole per	G	ain¹	Weight ²	Antenna height L	Wind load (v=160 km/h)	COLLII ILIII GI GI EI II			STEMS ³	3	
bays	bay	dB	times	kg	m	kg	800 W	1 KW	2 KW	3 KW	5 KW	
1	1	1.0	1.2	-	1.4	6.7	AJ1E	AJ1E(HP)	•	•	-	
2	1	4.0	2.5	-	4.0	13.5	•	AJ1EX21	•	•	-	
4	1	7.0	5.0	-	9.2	27	AJ1EX41	•	AJ1EX42	AJ1EX43	•	
6	1	8.8	8.5	-	14.4	40.5	AJ1EX61	•	AJ1EX62	AJ1EX63	-	
8	1	10.0	10.0	-	19.6	54	AJ1EX81	•	AJ1EX82	-	AJ1EX85	

- $^{f 1}$ Referred to a half wave dipole. Attenuation of connecting cables not taken into account.
- ² Without mounting hardware.
- ³ The systems comprised: antennas, cables and splitter for more details to see catalog different version on request.

Gain is provided for vertical polarization.

When antenna is pole mounted on the top 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.

Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided.

Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.

Five ft(1.6mt) of pipe required above the top bay and below the bottom bay for 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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