

Models: AJ2E-AJ2EBI-AJ2E/IT

- High power version H.P
- FM band 87.5-108MHz
- Suitable for VHS, Band land OIRT band on request
- Gamma match tuned
- Vertical polariztion
- Light- low cost- desmountable



ELECTRICAL DATA

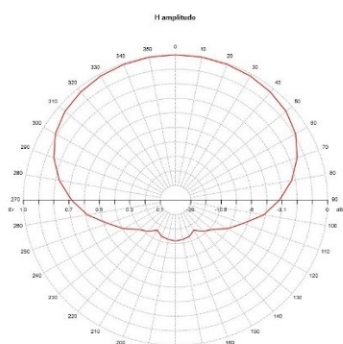
Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connectors	N or 7/16" female or 7/8" EIA
Max Power	650W (N)-1300 W (7/16"- H.P version)
VSWR	≤ 1.1:1 in the opening channel
Polarization	Vertical
Gain	5dB (referred to half wave dipole)
Half power	E plane + _35° H plane + _54°
Lightning protection	No DC grounded

MECHANICAL DATA

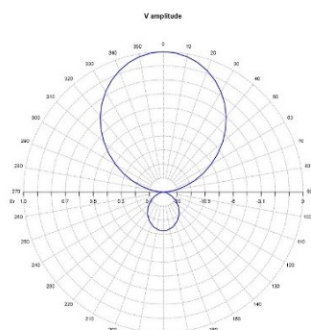
Dimensions	According to the working frequency (1500(H)x860(L)x100(W) mm at 98Mhz
Weight	According to the working frequency
Wind surface	0.093m2 (at 98 Mhz)
Wind load	12.1 Kg (wind speed at 160Km/h)
Max wind velocity	200Km/h (AJ2E/IT model)
Materials	AJ2E: aluminium elements and boom AJ2EBI: aluminuim elements and inox boom AJ2E/INOX: inox elements and boom AJ2E/IT: -inox elements and boom -TIG welded versin Insulator: teflon Radome: fiberglass (optional)
Icing protection	Feed point radome
Radome (optional)	Color white (optional)
Mounting	With special pipe clamps 50÷110 mm diameter

RADIATION PATTERN (MID BAND)

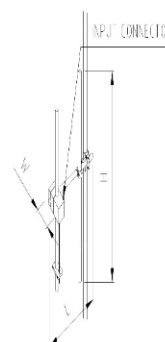
DIMENSIONS



H amplitude



E amplitude



Radiations systems with AJ2E antenna

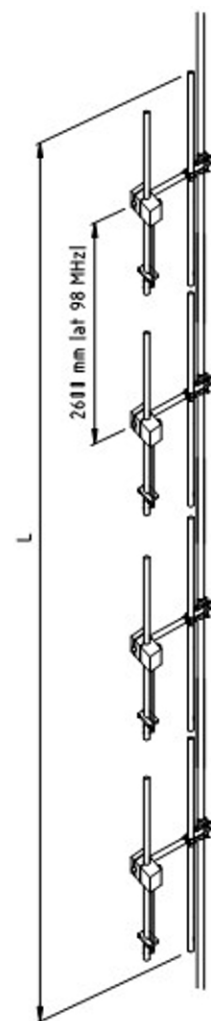
Collinears systems

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 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	According to working frequency
Wind load	Refer to table (at 98 Mhz)
Pressurizable	No
Radome colour	White (optional)
Mounting hardware	Hot dip galvanized steel clamps (standard)
Shipping	As required



TECHNICAL DATA

Number of bays	Dipole per bay	Gain ¹		Weight ² kg	Antenna height L m	Wind load (v=160 km/h) kg					
		dB	times								
1	1	5	3.1	-	1.5	12.1	AJ2E	AJ2E(HP)	-	-	-
2	1	8	6.3	-	4.1	24.2	-	AJ2EX21	-	-	-
4	1	11	12.7	-	9.3	48.4	AJ2EX41	-	AJ2EX42	AJ2EX43	-
6	1	12.8	18.9	-	14.5	72.6	AJ2EX61	-	AJ2EX62	AJ2EX63	-
8	1	14	25.2	-	19.7	96.8	AJ2EX81	-	AJ2EX82	-	AJ2E X85

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 polarisation.
- 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 (1.6m) 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.