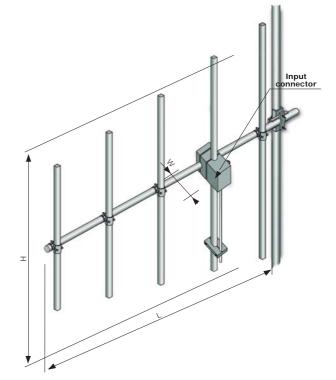
### **TELECOMUNICAZIONIFERRARA**RVRGROUP

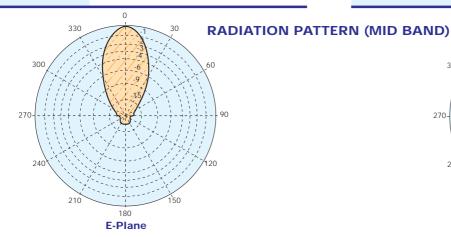
## Model AJ5E – AJ5EBI – AJ5E/INOX – AJ5E/IT

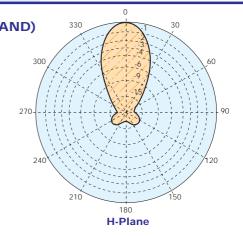
- High Power Version (H.P.)
- FM Band 87.5÷108 MHz
- Suitable for VHF, Band I and OIRT Band
- Gamma Match Tuned
- Directional pattern
- Vertical or horizontal polarization
- Light Low Cost Demountable



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 or horizontal					
Gain	9.5 dB (referred to half-wave dipole)					
Pattern	E plane ± 20° H plane ± 22°					
Lightning protection	No DC grounded					

MECHANICAL DATA					
Dimensions	According to the working frequency 1500 (H) x 2700 (L) x 100 (W) mm at 98 MHz				
Weight	According to the working frequency (aluminium or stainless steel)				
Wind surface	0.23 m <sup>2</sup> (at 98 MHz)				
Wind load	30 kg (wind speed at 160 km/h)				
Max wind velocity	160 km/h (AJ5E/IT model)				
Materials	AJ5E: Aluminium elements and boom AJ5EBI: Aluminium elements and stainless steel boor AJ5E/INOX: Stainless steel elements and boom AJ5E/IT: Stainless steel elements and boom Tig Welded Version Teflon insulator Radome: fiberglass (option)				
Icing protection	Feed point radome (optional)				
Radome	Optional				
Mounting	With special pipe clamps 50÷110 mm dia.				





"These specifications are subject to change without notice"



### RVRGROUP TELECOMUNICAZIONIFERRARA

Model AJ5E - AJ5EBI - AJ5E/INOX - AJ5E/IT

# Radiations systems with AJ5E 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 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 Dipole of per		Gain <sup>1</sup>			Antenna height L	Wind load L (v=160 km/h)
bays	bay	dB	times	kg	m	kg
1	1	9.5	8.9	-	1.5	30
2	1	12.5	17.8	-	4.1	60
4	1	15.5	35.6	-	9.3	120
6	1	17.3	53.4	-	14.5	180
8	1	18.5	71.3	-	19.7	240

- <sup>1</sup> Referred to a half wave dipole. Attenuation of connecting cables not taken into account.
- <sup>2</sup> Without mounting hardware.
- ➤ Gain is provided for vertical polarization.
- > 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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