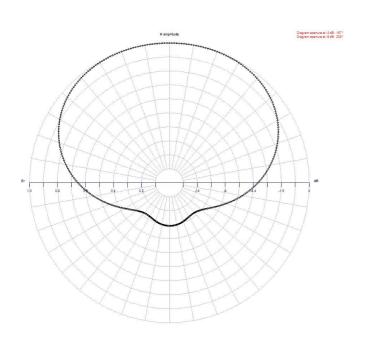
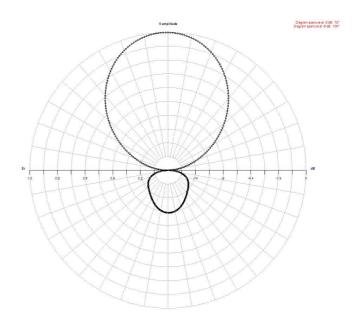
Model: AJ3III

- **Band III**
- Broadband 170 ÷ 230 MHz
- **Demountable**
- **Vertical or Horizontal polarization**
- **Pressurizzable on request**



RADIATION PATTERN (MID BAND)





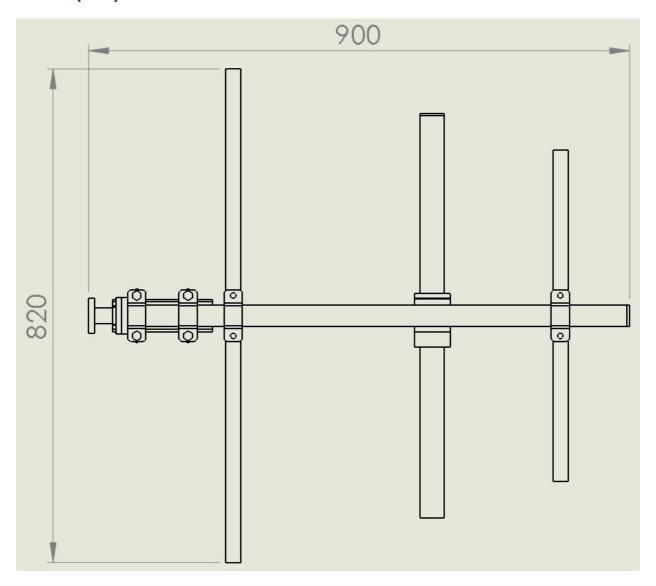


Freq. in MHz



dB

Dimensions (mm)



ELECTRICAL DATA					
Frequency range	170 ÷ 230 MHz				
Impedance	50 Ohm				
Connectors	N or 7-16 or 7/8" EIA				
Max Power	2KW (7-16) – 3 KW (7/8")				
VSWR	≤ 1.20:1 Horizontal polarization with pole diam. 100 mm				
Polarization	Horizontal or Vertical				
Gain	4.2 dBd (referred to half-wave Dipole) max.				
Half power beam width	E plane ± 38° H plane ± 82°				
Lightning protection	All metal parts DC grounded				

MECHANICAL DATA				
Dimensions	820x900x180 mm			
Weight	9 Kg without hardware mounting			
Wind surface	0.08m ²			
Wind load	10.2 Kg (wind speed at 150 km/h – without radome)			
Max wind velocity	220 Km/h			
Materials	External parts: stainless steel Internal parts: passivated aluminium, brass Radome : Metalcrilate or PTFE(option)			
Icing protection	Feed point radome (optional)			
Radome color	Transparent (optional)			
Mounting	With special pipe clamps 50 ÷ 110 mm dia.			





RVRGROUP

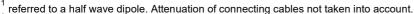
Radiations systems with AJ3III Yagi antenna **Directional pattern**

ELECTRICAL DATA					
Frequency range	170 ÷ 230 MHz				
Impedance	50 Ohm				
Connector	EIA flange according to system power rating				
VSWR	≤ 1.20:1 Max				
Polarization	Horizontal or 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	Refer to table		
Wind load	Refer to table		
Pressurizzable	Yes (on request)		
Radome colour	Transparent (optional)		
Mounting hardware	Inox stainless steel clamps		
Shipping	As required		

TECHNICAL DATA

I E O I I I I I I I I I I I I I I I I I								
Number of	Dipoles per	Gain ¹		Weight² kg	Antenna height L	Wind load (v=150 km/h)		
bays	bay	dB	times		m	kg		
2	1	7.5	5.6	20	2.1	20.4		
4	1	10.5	11.2	40	4.7	40.8		
6	1	12.3	16.9	60	7.3	61.2		
8	1	13.5	22.3	80	9.9	81.6		
12	1	15.5	35.4	120	15.1	122.4		



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 93 Mph (150Km/h) per EIA-222-C standard.

