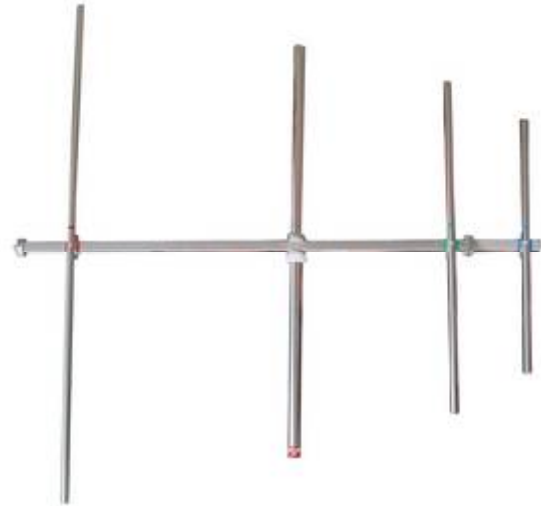


Model : AJ4

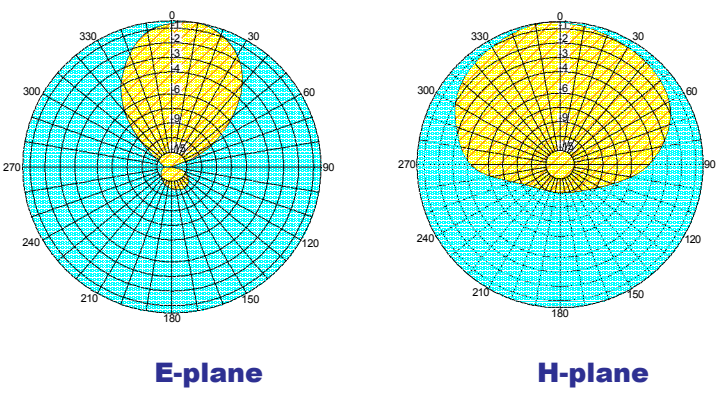
- **Band II**
- **Broadband 87.5÷108 MHz**
- **Demountable**
- **Vertical or Horizontal polarization**
- **Stainless steel AISI 304**
- **Pressurizzabile on request**



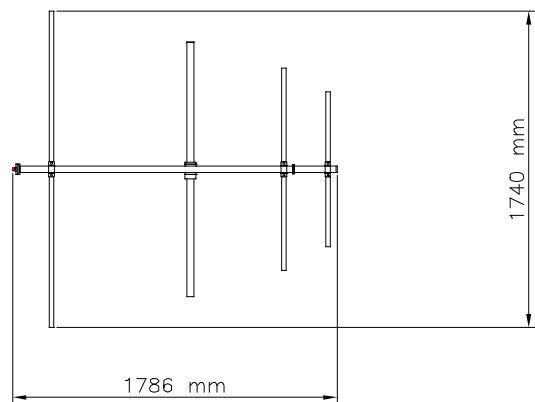
ELECTRICAL DATA	
Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connectors	N or 7/16" or 7/8" EIA
Max Power	800W (N)–2KW (7/16")–3.5KW (7/8" EIA)
VSWR	≤ 1.35:1
Polarization	Horizontal or Vertical
Gain	5.0 dB (referred to half-wave dipole)
Half power beam width	E plane ± 30° H plane ± 62°
Lightning protection	All metal parts DC grounded

MECHANICAL DATA	
Dimensions	1786x1740x180 mm
Weight	16.5 Kg with hardware mounting
Wind surface	0.21 m ²
Wind load	31.1 Kg (wind speed at 160 km/h – without radome)
Max wind velocity	200 Km/h
Materials	External parts: stainless steel Internal parts: passivated aluminium Radome : fiberglass (option)
Icing protection	Feed point radome (optional)
Radome color	White (optional)
Mounting	With special pipe clamps 50 ÷ 110 mm dia.

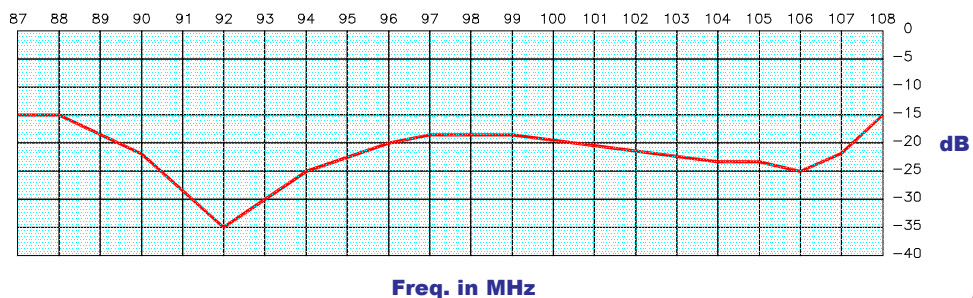
RADIATION PATTERN (MID BAND)



DIMENSIONS



Return Loss

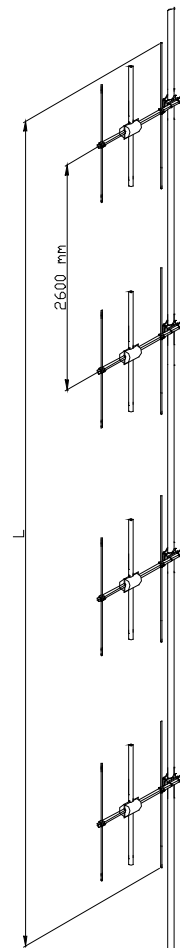


Radiations systems with AJ4 Yagi antenna

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	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
Pressurizable	Yes (on request)
Radome colour	White (optional)
Mounting hardware	Hot dip galvanized steel clamps (option)
Shipping	As required



TECHNICAL DATA

Number of bays	Dipoles per bay	Gain ¹		Weight ² kg	Antenna height L m	Wind load (v=160 km/h) kg	COLLINEARS SYSTEMS ³			
		dB	times				2KW	4KW	6KW	10KW
2	1	7.0	5.0	27	4.4	53.4	AJ4X22	AJ4X24	AJ4X26	-
4	1	10.0	10.0	54	9.6	106.8	AJ4X42	AJ4X44	AJ4X46	AJ4X410
6	1	11.8	15.0	81	14.8	160.2	AJ4X62	AJ4X64	-	AJ4X610
8	1	13.0	20.0	108	20.0	213.6	AJ4X82	AJ4X84	AJ4X86	AJ4X810
12	1	14.8	30.1	138	30.5	320.4	-	-	-	-

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 catalogue – different version on request

- 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.