

Model AJF10

- **Band II dipole**
- **Broadband 87.5 | 108 MHz**
- **2.2 dBd average gain**
- **Vertical polarization**
- **Omni directional pattern**
- **Stainless steel AISI 304**



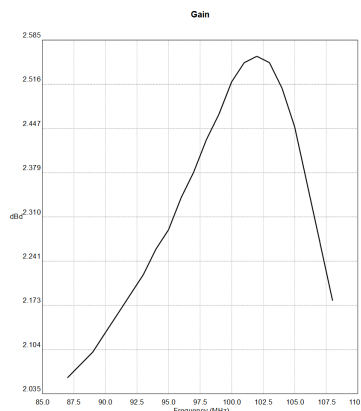
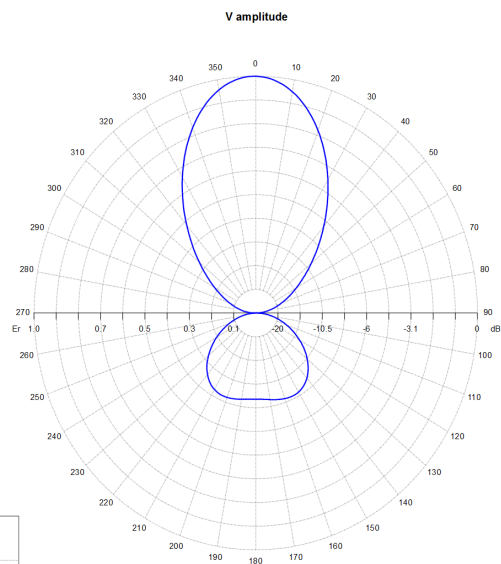
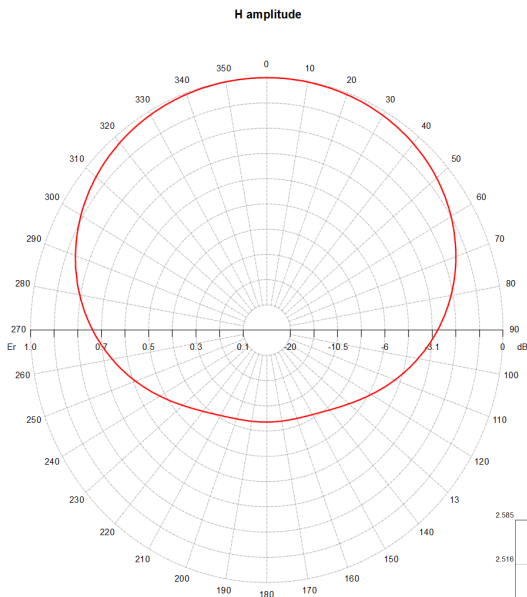
ELECTRICAL DATA

Frequency range	87.5 108 MHz
Impedance	50 Ohm
Connectors	1+5/8"
Max Power	10 kW
VSWR	≤ 1.22:1 Average
Polarization	Vertical
Gain	See table (referred to half-wave dipole)
Pattern	See table calculated with 100mm dia. pole

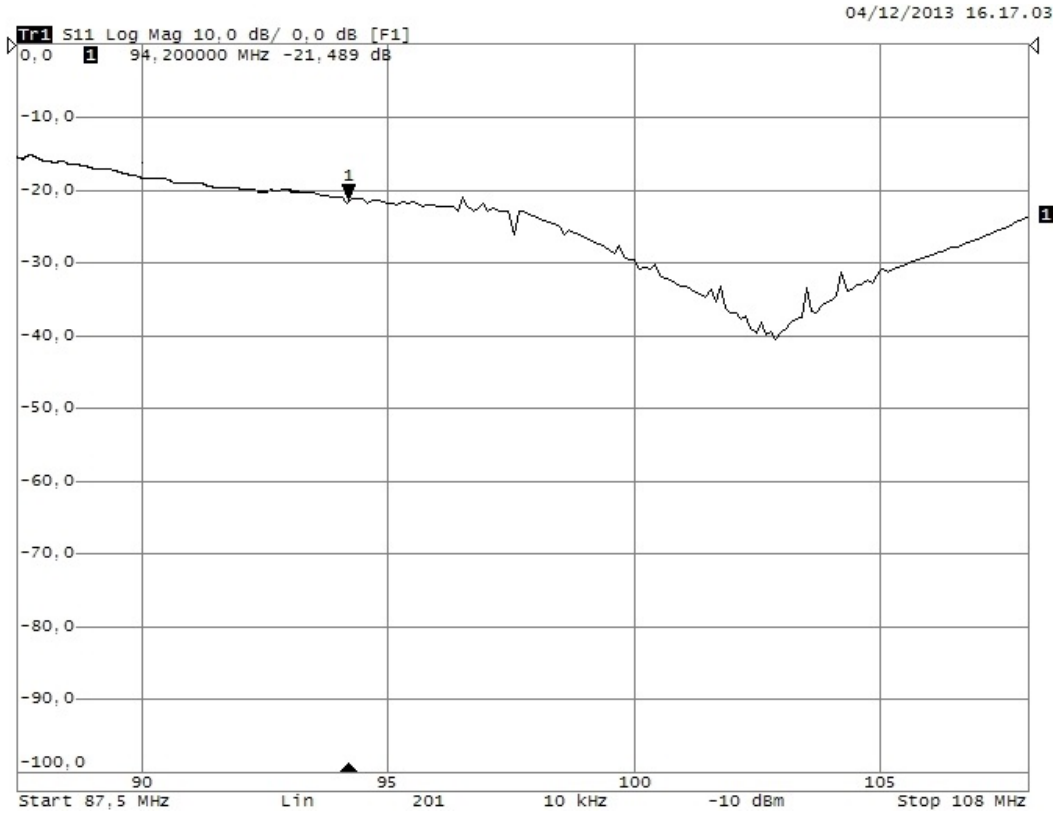
MECHANICAL DATA

Dimensions	1680x720x165 mm
Weight	15 kg with hardware mounting
Wind surface	0.15 m ²
Wind load	18.5 kg (wind speed at 160 km/h – without radome)
Max wind velocity	220 km/h.
Materials	External parts: stainless steel Internal parts: passivated aluminium, brass. Radome: teflon
Icing protection	Feed point radome
Radome	White
Mounting	With special pipe clamps 50 110 mm dia.

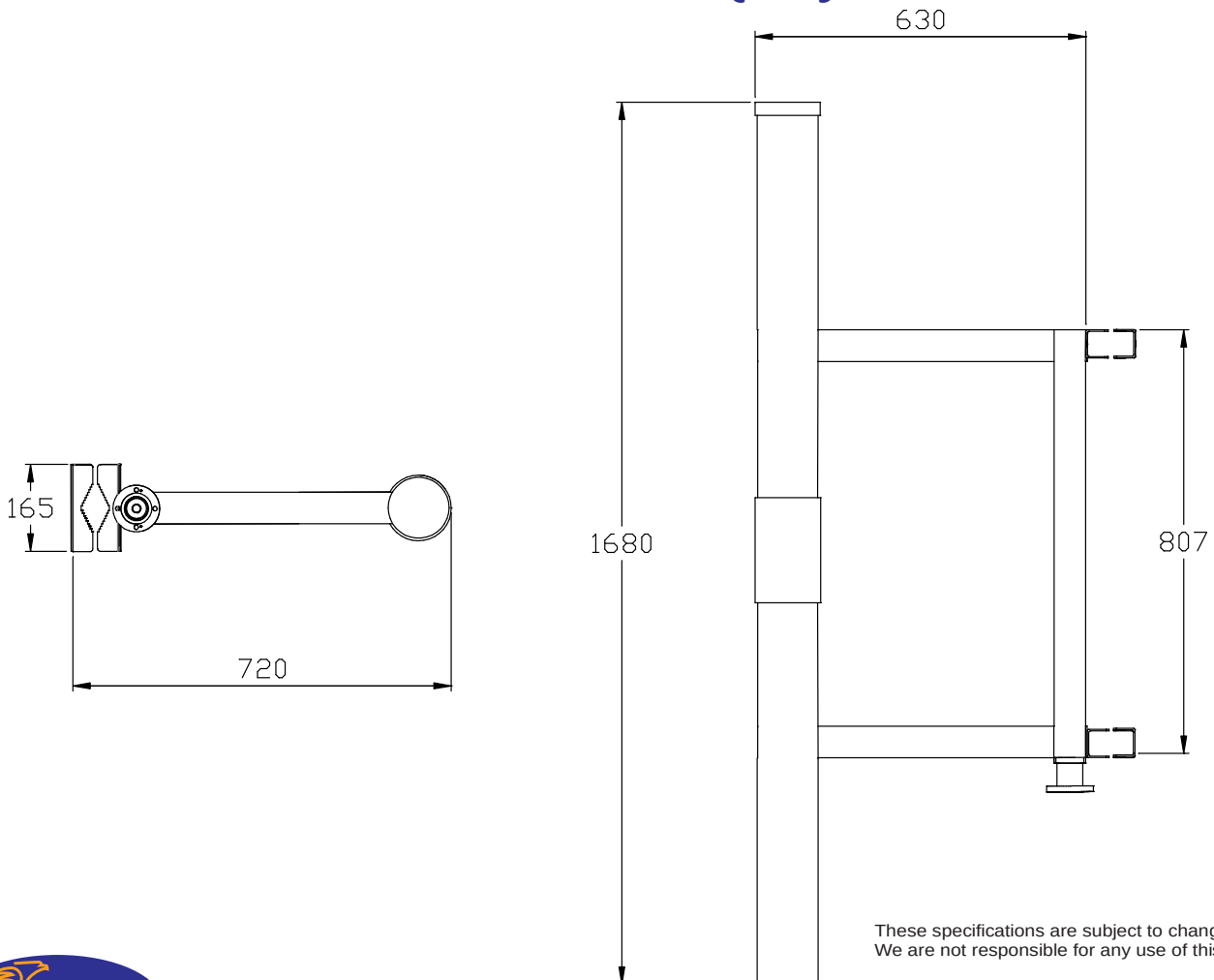
RADIATION PATTERN (MID BAND)



RETURN LOSS



DIMENSIONS (mm)



These specifications are subject to change without notice.
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Model AJIF10

Radiations systems with AJIF10 antenna Omni-directional pattern

ELECTRICAL DATA	
Frequency range	87.5 108 MHz
Impedance	50 Ohm
Connector	EIA flange according to system power rating
VSWR	≤ 1.25:1 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	Refer to table
Wind load	Refer to table
Pressurizable	Yes (on request)
Radome	dotation
Mounting hardware	inox steel clamps
Shipping	As required

TECHNICAL DATA						
Number of bays	Dipole per bay	Gain ¹	Weight ²	Antenna height L	Wind load	
		dB	times	kg	mt.	(v=160 km/h) kg
1	1	2.2	1.66	15	1.7	18.5
2	1	5.2	3.311	30	4.30	37.0
3	1	6.4	4.365	45	6.00	55.5
4	1	8.2	6.607	60	9.50	74.0
6	1	10	10	90	14.80	111.0
8	1	11.2	13.183	120	20.30	148.0

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.

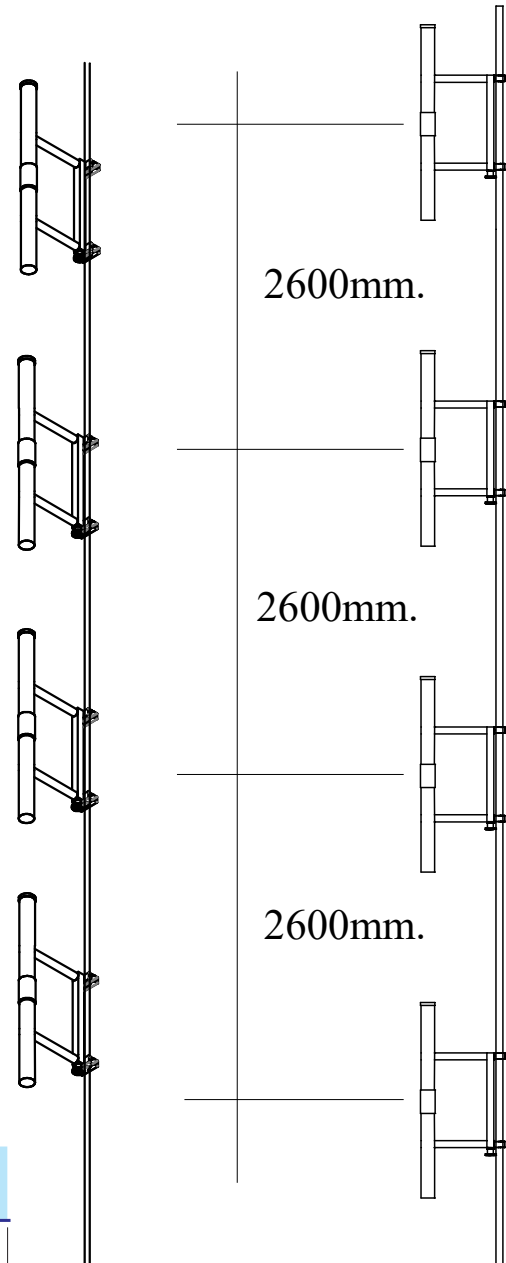
Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.

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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