

# MODEL: AJ1FENIX62

**BROADBAND COST EFFECTIVE DIPOLE SYSTEM**  
**LOW WEIGHT HIGH PERFORMANCE**

Brand: R.V.R.                      Manufacturer: R.V.R. Elettronica s.r.l.  
 Type: FM Antenna.              HS: 8529 1069.

- Band II dipole
- Broadband 87.5 ÷ 108 MHz
- 2 dBd gain
- Vertical polarization
- Omni directional pattern
- Stainless Steel



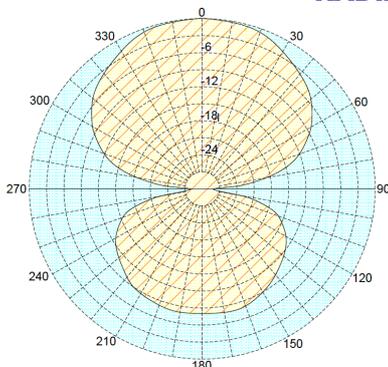
## SINGLE ANTENNA ELECTRICAL DATA

Frequency range	87.5 ÷ 108 MHz
Impedance	50 Ohm
Connectors	N - 7/16 - 7/8 EIA depending on power
Max Power	800W (N) – 2KW (7/16" - 7/8" EIA)
VSWR	≤ 1.35:1 Average
Polarization	Vertical
Gain	2 dB (referred to half-wave dipole) at 98 MHz
Pattern	Omni directional ± 1.5 dB in free space Omni directional ± 3 dB with 100mm diameter pole
Lightning protection	All metal parts DC grounded

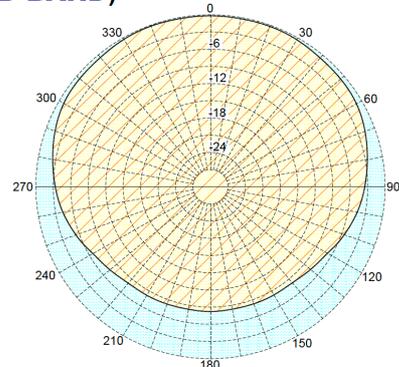
## SINGLE ANTENNA MECHANICAL DATA

Dimensions	1400x900x50 mm.
Weight	6 kg with hardware mounting.
Wind surface	0.10 m2.
Wind load	15 kg (wind speed at 160 km/h – without radome)
Max wind velocity	220 km/h.
Materials	External parts: Stainless Steel Internal parts: brass Radome: fiberglass (optional)
Icing protection	Feed point radome (optional)
Radome (option)	Color white
Mounting	With special pipe clamps 40 ÷ 110 mm diameter

## RADIATION PATTERN (MID BAND)

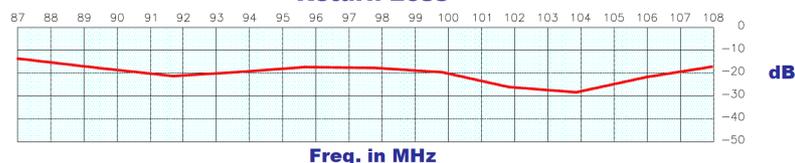


**E-plane**



**H-plane**

## Return Loss



# MODEL: AJ1FENIX62

OMNI - DIRECTIONAL PATTERN

## AJ1FENIX62 SYSTEM DATA

Frequency range	87.5 ÷ 108 MHz
Impedance	50 Ohm
Connectors	According to system power rating
VSWR	≤ 1.35:1 Max
Polarization	Vertical
Gain	See table
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.
Mounting Hardware	Hot dip galvanized steel clamps

## AJ1FENIX62 TECHNICAL DATA

Number of bays	Dipole per bay	Gain (1)		Weight Kg. (2)	Antenna height L	Wind load (v=160 km/h) kg
		dBd	times			
6	1	9.8	9.5	24	14.4	58.8

1 Referred to half wave dipole. Attenuation of connecting cables not taken into account.

2 Without mounting hardware. Systems comprise: antennas, cables and splitter.

Gain is provided for vertical polarization.

When antenna is pole mounted on the top of 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.

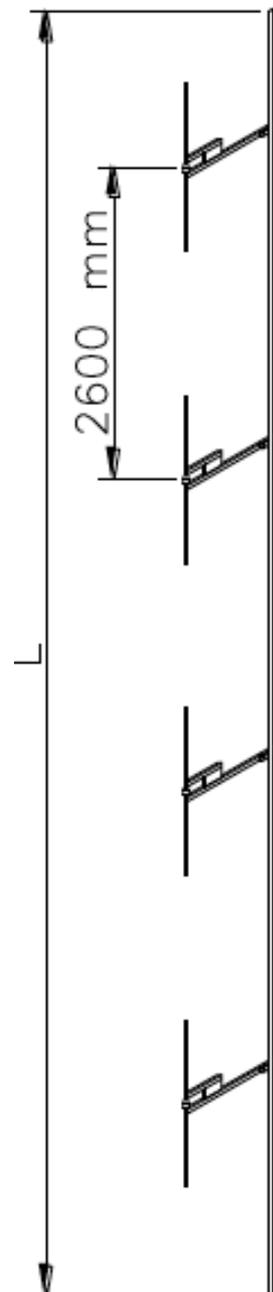
Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation.

Gain will be reduced if null fill, beam tilt or special wave length spacing are provided.

Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.

A length of five ft. (1.6 meters) of pipe is required above the top bay and below the bottom bay to protect from pattern interference by other antennas.

Antenna wind load is calculated for 100Mph (160Km/h) per EIA-222-C standard.



## ORDERING INFO

CODE	DESCRIPTION
AJ1FENIX62	6 Bays Broadband dipole system, max input power 2kW. Composed as it follows: Q.6) Inox Broadband Dipole Input N. Q.6) Cables RG213 IN-OUT N 9 meters/each. Q.1) Power Splitter IN 7/8 OUT 6N Broadband.