### **TELECOMUNICAZIONIFERRARARVRGROUP**

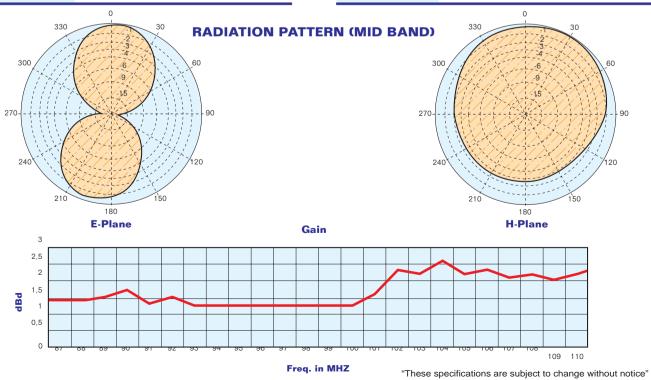
# Model AJ1F - AJ1F 7/8

- Band II dipole
- Broadband 87.5÷108 MHz
- 1,5 dB gain
- Vertical polarization
- Omni directional pattern
- Stainless steel AISI 304



ELECTRICAL DATA						
Frequency range	87.5÷108 MHz					
Impedance	50 Ohm					
Connectors	N or 7/16" female or 7/8" EIA					
Max Power	800W (N) – 2KW (7/16") – 3.5KW (7/8" EIA)					
VSWR	≤ 1.35:1 Average					
Polarization	Vertical					
Gain	See table (referred to half-wave dipole)					
Pattern	Omni directional ± 1.5 dB in free space Omni directional ± 3 dB with 100mm dia. pole					
Lightning protection	All metal parts DC grounded					

MECHANICAL DATA							
Dimensions	1360x1100x180 mm						
Weight	9 kg with hardware mounting						
Wind surface	0.06 m <sup>2</sup>						
Wind load	10.1 kg (wind speed at 160 km/h – without radome)						
Max wind velocity	220 km/h.						
Materials	External parts: stainless steel Internal parts: passivated aluminium Radome: fiberglass (option)						
Icing protection	Feed point radome (optional)						
Radome	Optional						
Mounting	With special pipe clamps 50+110 mm dia.						

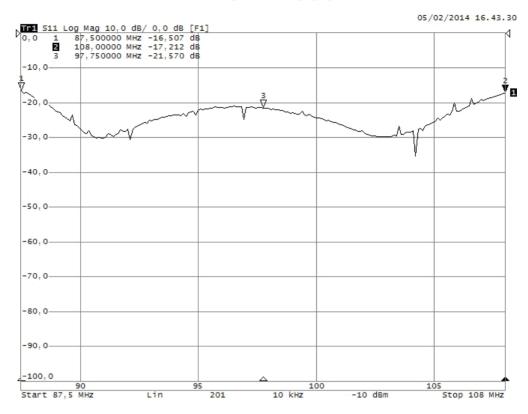




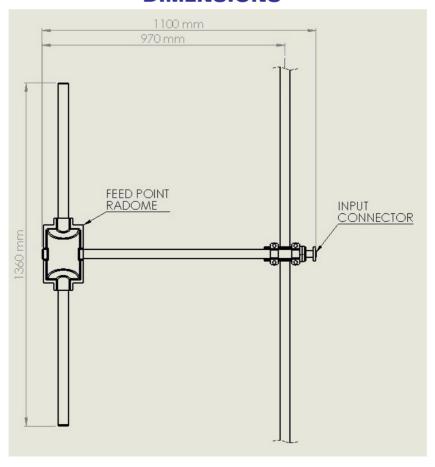
## **TELECOMUNICAZIONIFERRARA RVRGROUP**

## Model AJ1F - AJ1F 7/8

#### **RETURN LOSS**



#### **DIMENSIONS**







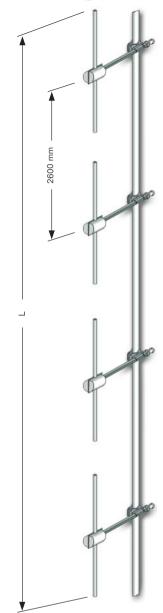
#### <u> TELECOMUNICAZIONIFERRARARVRGROUP</u>

## Model AJ1F - AJ1F 7/8

# Radiations systems with AJ1F antenna Omni-directional pattern

ELECTRICAL DATA						
Frequency range	87.5÷108 MHz					
Impedance	50 Ohm					
Connector	EIA flange according to system power rating					
VSWR	≤ 1.35:1 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					
Pressurizzable	Yes (on request)					
Radome	Optional					
Mounting hardware	Hot dip galvanized steel clamps					
Shipping	As required					



#### **TECHNICAL DATA**

Number Dipole of per		e Gain¹		Antenna height L		COLLINEARS SYSTEMS <sup>3</sup>				
bays		dB	times	kg	m	kg	2 KW	4 KW	6 KW	10 KW
1	1	1.5	1.4	9	1.4	10.1	AJ1F	AJ1F	-	-
2	1	4.5	2.8	18	4.0	20.2	AJ1FX22	AJ1FX24	AJ1FX26	-
4	1	7.5	5.6	36	9.2	40.4	AJ1FX42	AJ1FX44	AJ1FX46	AJ1FX410
6	1	9.3	8.4	54	14.5	60.6	AJ1FX62	AJ1FX64	-	AJ1FX610
8	1	10.5	11.3	72	20.0	80.8	AJ1FX82	AJ1FX84	AJ1FX86	AJ1FX810

- <sup>1</sup> Referred to a half wave dipole. Attenuation of connecting cables not taken into account.
- <sup>2</sup> Without mounting hardware.
- <sup>3</sup> 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.
- ightharpoonup 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.

"These specifications are subject to change without notice"

