Delta2 Series

EXPOSED FOLDED VHF **DIPOLE 2-Bay Array**

138-174 MHz

JAG-150-2-1/2-F





- Civil aviation applications
- Land mobile networks
 - Public security and safety
- Transportation networks











		Maharials		Land mobile networks Public security and safety Transportation networks	25 (217) 26 (217) 20 (161) 3.5 (12.7) 4 (342.5) 3 (112.1) 4.7 (333.5)	
Electrical Specifications		·	Mechanical Specifications		Environmental Model - IAC 150 2 1/2 5	
Model JAG-150-2-1/2-F		Model JAG-150-2-1/2-F	Model JAG-150-2-1/2-F		Model JAG-150-2-1/2-F	
Frequency Range (MHz)	138 – 174	Height inches (mm)	120 (3,048)	Survival Wind Velocity With no Ice mph (km/h) 13	5 (217)	
Bandwidth @ 1.5:1 VSWR or Better (MHz)	36	Width inches (mm) Depth inches (mm)	42 (1,066.8)	Survival Wind Velocity With Ice mph (km/h) 10	00 (141)	
Polarization	Vertical		4.25 (108)	1 \ /	J (161)	
Radiation Pattern Bi-direct	ctional (Elliptical)	Weight lb (kg) Support Mast	25 (11.33)	Maximum Allowable Radial Ice Buildup inches (mm) 0.	5 (12.7)	
Nominal Gain (dBd)	3 – 3.7	Outside Diameter Inches (mm)	2.375 (60.3)	Equivalent Flat Plate Area ft^2 (m^2) 2.1	1 (0.2)	
Nominal Horizontal 3dB Beamwidth (Deg)	205 – 215	Support Mast Allowable Clamping Space	210.12 (23.2)	Lateral thrust (100mph)	(342.5)	
Nominal Vertical 3dB Beamwidth (Deg)	33 – 35	Inches (mm)	Inches (mm) 45 (1,143)		(112.1)	
Maximum Power (Watts)	200		(See JAG clamps page for suitable clamps)		0 Radial Ice Buildup ft-lbs (Nm) 83 (112.1)	
Lightning Protection	DC Ground	Pigtail (ft) & RF Connector 5 – 5	5.5 & 'N' Male	Bending moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 24	7 (333.5)	

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Delta2 Series

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JAG-150-2-1/2-F

Features

- 2-year factory warranty (See page 3)
- Broadband (36 MHz)
- Suitable for multi-frequency systems
- Soldered internal joints
- Segmented for easy transport
- Fits in standard Otis Elevators
- DC Grounded
- Stainless steel hardware
- Easy storage
- Low PIM
- Operation in harsh environments
- Optional downtilt versions
- Optional lightning rod spike
- Natural rubber plugs
- Reduced installation cost
- Adjustable radiation pattern
- Optional inverted mountable model

Side or tower top mountable

Description

The JAG-150-2-1/2-F is a 2-bay version of the JAG-150-1-1/2, incorporating all the features of the basic model into a medium gain antenna needed in certain system applications. The JAG-150-2-1/2-F is supplied with either quarter-wave (JAG-150-2-1/4-F) or half-wave (JAG-150-2-1/2-F) dipole-to-mast spacing. Site-specific mounting hardware is required with these antennas. Please consult JAG for suitable clamps.

The JAG-150-2-1/2-F offers a segmented design to facilitate easy transport, rooftop access, and installation resulting in a cost effective antenna for urban

This antenna is especially suited for sites situated on the tops of urban skyscrapers and apartment buildings due to its ability to fit inside any elevator that provides a minimum clearance of 8-feet diagonally.

The JAG-150-2-1/2-F is fully appreciated serving sites that require many transmitters and receivers feeding a single antenna across a broad range of VHF frequencies.

JAG's unique flange system means that assembly of the sections is quite simple and requires only the use of ordinary hand tools. The flange system also means the logistics of getting the antenna to a rooftop, e.g., helicopters or outriggers can be avoided and minimize danger.

JAG-150-2-1/2-F at a glance



Undo transport bolts



Swing out top element



Align dipoles and join sections according to desired pattern

*Site-specific mounting hardware is necessary with theses antennas. Please consult JAG to determine suitable clamps for your application







JAG's dedication to continuous Research & Development will result

Rev082209.2



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in product improvements as they

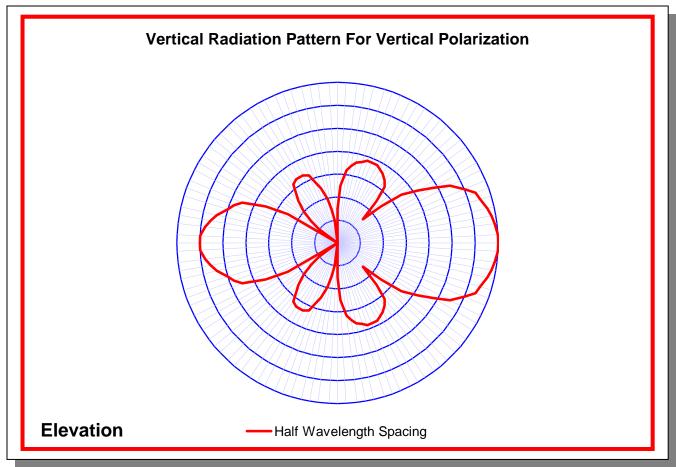
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EXPOSED FOLDED WHF **DIPOLE 2-Bay Array**

138-174 MHz

JAG-150-2-1/2-F



^{*} This is a general representation of the Delta1 Series JAG-150-2-1/2-F antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

WARRANTY

JAG Electronmagnetics warrants all its products against defects in material or workmanship and is only applicable if failure results from these factors within two years from the purchase date by the user. Jag Electromagnetics will be responsible for the supply, at no charge, of new or rebuilt replacements in exchange for defective parts for the duration of the warranty. This warranty does not extend to any JAG products that have been subject to misuse, neglect, accident, improper installation or application. In addition, this warranty does not extend to products that have been repaired or substantially altered outside our manufacturing plant.

JAG Electromagnetics will not be liable for any incidental or consequential damages due to failure of a JAG product under this warranty or any implied warranty. JAG is in no event liable for consequential damages or other costs of any kind as a result of the use of the products manufactured by JAG. No envoy is sanctioned to presume for JAG any other legal responsibility in connection with JAG products. JAG Electromagnetics is not accountable for replacement of any product damaged by lightning.

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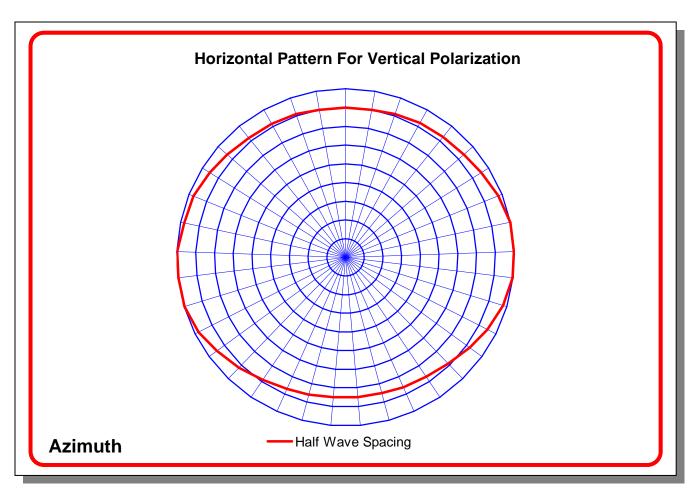
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