

JAG-150-8-1/2-TOP-F1



- Coast Guard & marine land stations
- Land mobile networks
- Public security and safety
- Transportation networks













Electrical Specifications		<b>Mechanical</b> Specifications				<b>Environmental</b>			
Model JAG-150-8-1/2-TOP-F1		Model JAG-150-8-1/2-TOP-F1			Model JAG-150-8-1/2-TOP-F1				
Frequency Range (MHz)	138 – 174	Height	inches (mm)	)	480 (12,192)	Survival Win	•	mph (km/h)	05 (153)
Bandwidth @ 1.5:1	20	Width	inches (mm)	)	42 (1,066.8)			прп (кпілі)	95 (155)
VSWR or Better (MHz)	36	Depth	n inches (mm)		4.25 (108)	Survival Wind Velocity With Ice		mph (km/h)	65 (105)
Polarization Vertical		Weight lb (kg) 375 (168.8)			Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7)				
Radiation Pattern Bi-directional (Elliptical)		Support Mast							
Nominal Gain (dBd)	8.9 – 9.2	Outside Di		)	8.625 (219)	Equivalent I Area	Flat Plate	ft^2 (m^2)	12.54 (1.17)
Nominal Horizontal 3dB Beamwidth (Deg)	205 – 215	Support M	ası		application notes for details	Lateral thru	· ' '	lho (NI)	466 (2.072)
Nominal Vertical			Allowable Clamping Space Inches (mm) 120 (3,048			0 Radial Ice		lbs (N)	466 (2,073)
3dB Beamwidth (Deg)	7 – 9	Mounting Information No clamps supplied			Torsional moment (95mph) 0 Radial Ice Buildup ft-lbs (Nm) 392 (529.1)				
Maximum Average Power (Watts) 300		(See JAG clamps page for suitable clamps)			Bending moment (95mph)				
Lightning Protection	DC Ground	Pigtail (ft)	& RF Connect	or 10 – 1	0.5 & 'N' Male	0 Radial Ice	٠, ,		1825 (2,464)

Dated: July-04-2011

JAG-150-8-1/2-TOP-F1 Product Specification Sheet.



Issue: 2

RF EMI Engineering Technology 26-1750 Creek Way Burlington, Ontario L7L 7E2 Canada Email: info@jagelectromagnetics.com Web: www.jagelectromagnetics.com Tel (905)-635-7437 Fax (905)-332-8093 Made in Canada

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JAG's dedication to continuous Research & Development will result in product improvements as they evolve.

## **Delta2 Series**

# EXPOSED FOLDED VHF DIPOLE 8-Bay Array

138-174 MHz

JAG-150-8-1/2-TOP-F1

### **Features**

- 5-year factory warranty (See page 3)
- Broadband (36 MHz)
- Suitable for multi-frequency systems
- High gain applications
- Soldered internal joints
- DC Grounded
- Stainless steel hardware
- **Expert TIG welding**
- Natural rubber plugs
- Stock for re-use or re-sale
- Low PIM
- Operation in harsh environments
- Optional lightning rod spike
- Optional downtilt versions
- Optional inverted mountable model

- Tower top mountable
- Optional coatings
- Ideal for monitoring stations

### **Description**

The JAG-150-8-1/2-TOP-F1 is an 8-bay version of the JAG-150-1-1/2, incorporating all the features of the basic model into an extremely high gain antenna needed in certain system applications. The JAG-150-8-1/2-TOP-F1 is designed for tower top mounting and is supplied with either quarter-wave (JAG-150-8-1/4-TOP-F1) or half-wave (JAG-150-8-1/2-TOP-F1) dipole-to-mast spacing. A JAG flange in the middle means this antenna is only 20-feet long when shipped and 40-feet tall assembled.

The JAG-150-8-1/2-TOP-F1 features 6061-T6 aluminum and stainless steel construction. Features such as natural rubber plugs make sure the internal phasing harness remains well protected from the elements ensuring trouble free operation.

This series also offers customers with an optional heavy-duty solid stainless steel lightning rod spike for locations prone to lightning strikes. JAG's standard option consists of a stainless steel bolt fed through the machined end cap. The stainless steel bolt allows for a corrosion free low resistance area for any potential lightning strikes as the surrounding aluminum oxidizes over time.

The JAG-150-8-1/2-TOP-F1, with its rugged construction and ease of installation, is ideal for leased or rented system use. Its bandwidth also makes it perfect to stock for re-use or re-sale.

# JAG-150-8-1/2-TOP-F1 at a glance



Expert TIG welding



Natural rubber plugs



Heavy-duty dipole fixture



Optional lightning rod

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

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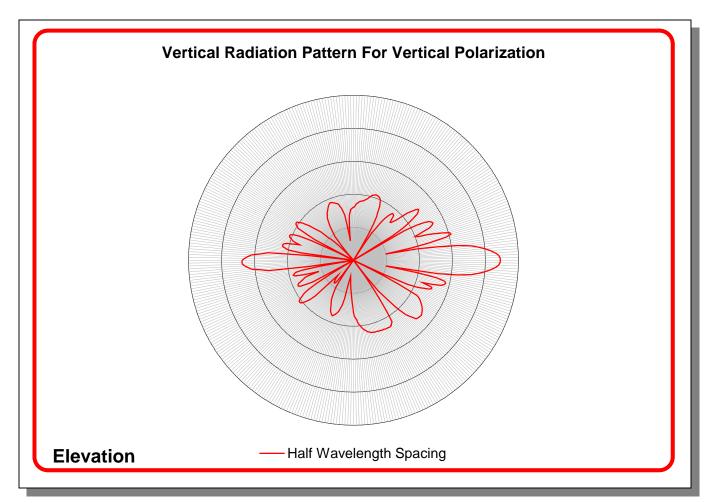
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JAG-150-8-1/2-TOP-F1



<sup>\*</sup> This is a general representation of the Delta0 Series JAG-150-8-1/2-TOP-F1 antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

### WARRANTY

JAG Electromagnetics warrants all its products against defects in material or workmanship and is only applicable if failure results from these factors within five 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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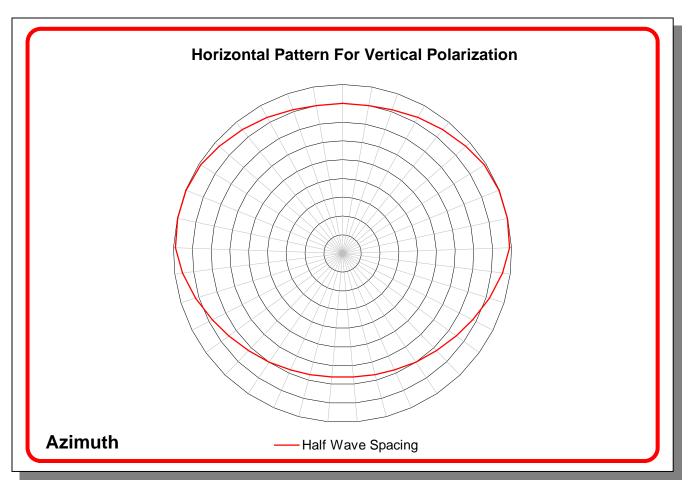
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