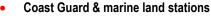


Delta2 Diversity Series EXPOSED FOLDED UNF DIPOLE 2-Band Array 138-174 MHz & 406-512 MHz



JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP



- Land mobile networks
- Public security and safety
- Transportation networks



Electrical Specifications		Mechanical Specifications			Environmental	
Model JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP		Model JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP			Model JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP	
Frequency Range (MHz)	138 – 174 / 406 – 512	Height	inches (mm)	780 (19,812)	Survival Wind Velocity With no Ice	mph (km/h) 95 (153)
Bandwidth @ 1.5:1		Width	inches (mm)	42 (1,066.8)		
VSWR or Better (MHz)	36 (VHF) / 106 (UHF)	Depth	inches (mm)	4.25 (108)	Survival Wind Velocity With Ice	mph (km/h) 65 (105)
Polarization	Vertical	Weight	lb (kg)	1,125 (506.4)	Maximum Allowable	
Radiation Pattern Bi-directional (Elliptical)		Support Mast Outside Diameter Inches (mm) 24 (609.6)		Radial Ice Buildup inches (mm) 0.5 (12.7)		
Nominal Gain (dBd) 8.9 – 9.2 (VHF) / 8.9 – 9.2 (UHF)				24 (609.6)	Equivalent Flat Plate Area	ft^2 (m^2) 25.08 (2.34)
Nominal Horizontal			Mast *See JAG Delta1	Series application notes for details	Alea	11 2 (111 2) 23.00 (2.34)
3dB Beamwidth (Deg)	205 – 215	Allowable Clamping Space Inches (mm) 6		60 (1,524)*	Lateral thrust (95mph) 0 Radial Ice Buildup	lbs (N) 932 (4,146)
Nominal Vertical	7 – 9 (VHF)			,		
3dB Beamwidth (Deg)	7 – 9 (UHF)		Mounting Information No clamps supplied (See JAG clamps page for suitable clamps)		Torsional moment (95mph) 0 Radial Ice Buildup ft-Ibs (Nm) 784 (1,058)	
Maximum Average Power (Watts) 300 (VHF) / 300 (UHF)		Pigtails (ft) & RF Connectors 5 – 5.5 & 'N' Male Note: See JAG anterna options page for other connectors and pigtail lengths.			Bending moment (95mph) 0 Radial Ice Buildup ft-Ibs (Nm) 3,650 (4,928)	
Lightning Protection DC Ground						

Dated: July-04-2011

JAG-150-8-1/2+ JAG-450-8-1/2-F1-TOP Product Specification Sheet.

Issue: 1



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

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Specifications are subject to change without notice. As a result, all information contained in the present datasheet is subject to confirmation at time of ordering.



Delta2 Diversity Series EXPOSED FOLDED UHF **DIPOLE 2-Band Array**

138-174 MHz & 406-512 MHz



JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP

Features

- 5-year factory warranty (See page 3)
- Broadband (36MHz VHF & 106MHz UHF)
- Suitable for multi-frequency systems
- Soldered internal joints
- Segmented for easy transport
- 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 (rooftops)
- Adjustable radiation pattern*
- Optional inverted mountable model

Side or tower top mountable

JAG Delta2 Series application notes for details

Description

The JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP is a top mount dual band VHF/UHF antenna incorporated onto one mast needed in certain system applications. This antenna is supplied with either guarter-wave or half-wave dipole-to-mast spacing. Depending on the coverage pattern required, this antenna can also be ordered with $1/4\lambda$ VHF spacing and $1/2\lambda$ UHF spacing or vise versa.

The JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP offers JAG's patented flange system segmented design to facilitate easy transport, rooftop access, and installation resulting in a cost effective antenna for urban sites.

The JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP 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.

The JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP is fully appreciated serving sites that require many transmitters and receivers feeding a single antenna across a broad range of VHF and UHF frequencies.

The JAG-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 can be avoided and minimize danger.

JAG-150-8-1/2+JAG-450-8-1/2-F1-T0P at a glance



JAG patented flange system with 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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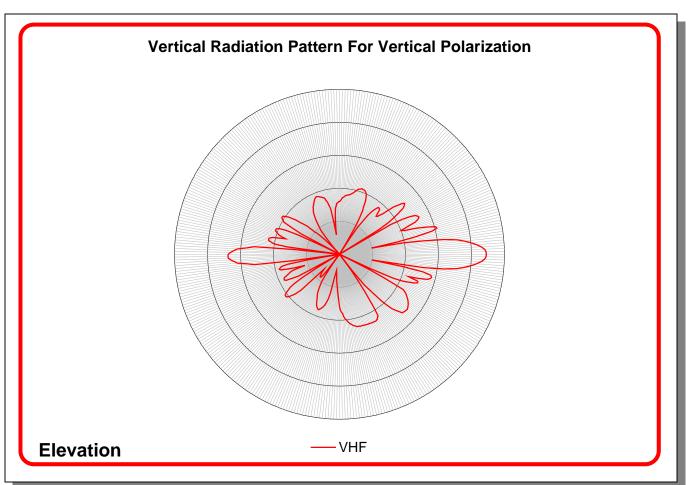
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Delta2 Diversity Series EXPOSED FOLDED UNE DIPOLE 2-Band Array 138-174 MHz & 406-512 MHz



JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP



* This is a general representation of the Delta2 Series JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

Specification Shee

JAG-450-8-1/2-F1-TOP Product

150-8-1/2+

-bЧ

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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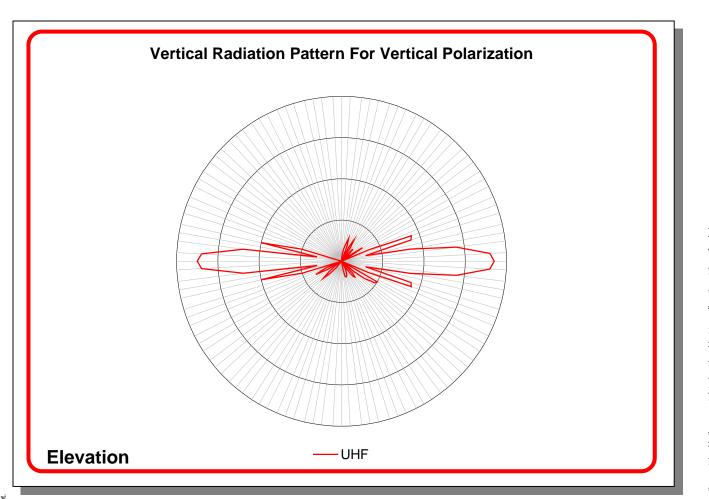
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Delta2 Diversity Series EXPOSED FOLDED ^{VHF} DIPOLE 2-Band Array 138-174 MHz & 406-512 MHz



JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP



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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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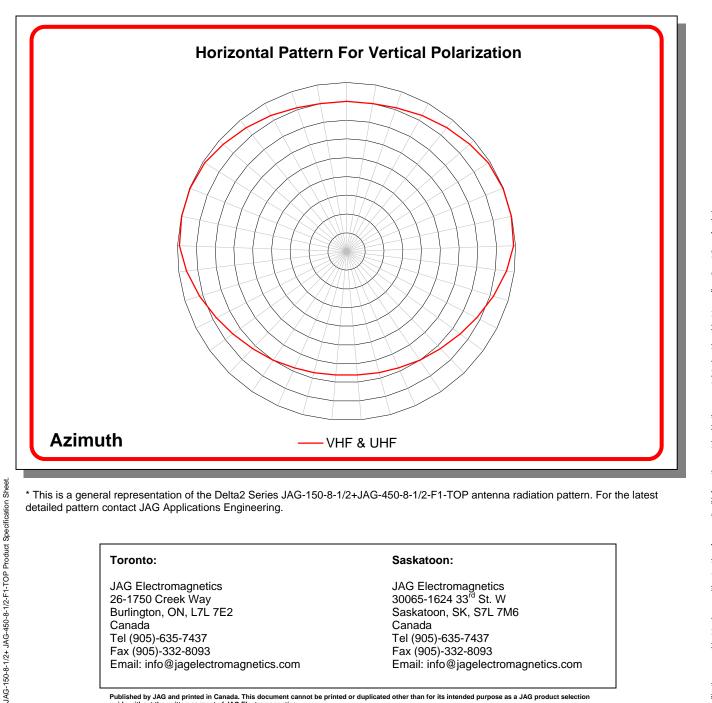
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Delta2 Diversity Series EXPOSED FOLDED UNE DIPOLE 2-Band Array 138-174 MHz & 406-512 MHz



JAG-150-8-1/2+JAG-450-8-1/2-F1-TOP



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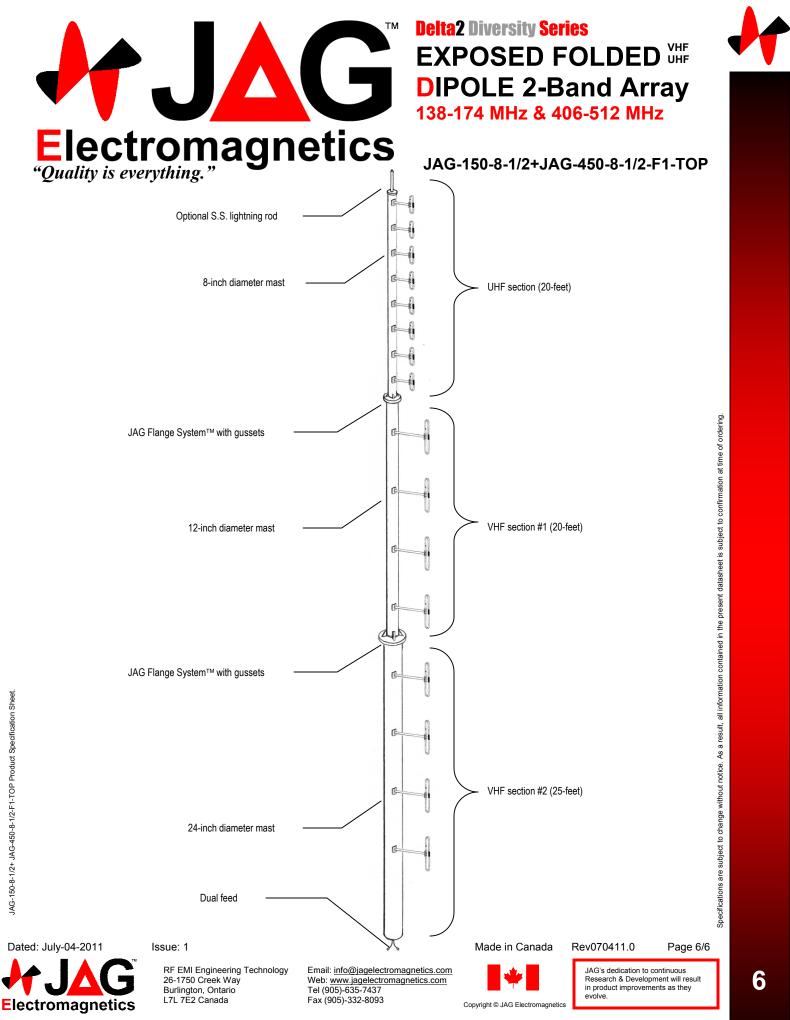
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