



JAG-150-2-1/2+JAG-450-4-1/2-F





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











Electrical Specifications			Mechanical Specifications			Environmental	
Mode	Model JAG-150-2-1/2+JAG-450-4-1/2-F			JAG-150-2-1/2+JA0	G-450-4-1/2-F	Model JAG-150-2-1/2+JAG-450-4-1/2-F	
Frequen	cy Range (MHz)	138 – 174 / 406 – 512	Height	inches (mm)	241 (6,121)	Survival Wind Velocity With no Ice	mph (km/h) 110 (177)
	th @ 1.5:1	36 (VHF) / 106 (UHF)	Width	inches (mm)	42 (1,066.8)		IIIpii (KIII/II) 110 (177)
VSWR 0	r Better (MHz)		Depth	inches (mm)	4.25 (108)	Survival Wind Velocity With Ice	mph (km/h) 80 (128)
Polariza Podnet Specification Sheet Radiatio Nominal Nominal 3dB Bea Nominal 3dB Bea Maximul Lightning Lightning	ion	Vertical	Weight	lb (kg)	55 (24.96)	Maximum Allowable	
Radiatio	Radiation Pattern Bi-directional (Elliptical)		Support Mast		Radial Ice Buildup inches (mm) 0.5 (12.7)		
Nominal Nominal	Gain (dBd) 3 – 3	.7 (VHF) / 6.45 – 7 (UHF)		ameter Inches (mm)	2.375 (60.3)	Equivalent Flat Plate Area	ft^2 (m^2) 4.51 (0.42)
Nominal	Horizontal		Support Mast				. , , , ,
3dB Bea	mwidth (Deg)	205 – 215	Allowable	Clamping Space Inches (mm)	45 (1,143)	Lateral thrust (100mph) 0 Radial Ice Buildup	lbs (N) 173 (769.5)
Nominal		33 – 35 (VHF)	Mounting	, , , , ,	Torsional moment (100mph)	.,, ,	
A Supplea	mwidth (Deg)	15 – 19 (UHF)	Mounting Information No clamps supplied* *See JAG clamps page for suitable clamps and applications			0 Radial Ice Buildup ft-lbs (Nm) 157 (212)	
Maximui	m Average Power (Watts)	200 (VHF) / 200 (UHF)	Pigtails (ft) & RF Connectors 5 – 5.5 & 'N' Male Note: See JAG antenna options page for other connectors and pigtail lengths.		Bending moment (100mph)		
Fightning	g Protection	DC Ground				0 Radial Ice Buildup ft-lbs (Nm) 761 (1027.4)	

Dated: April-10-2010



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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 Series

JAG-150-2-1/2+JAG-450-4-1/2-F

Features

- 2-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
- Adjustable radiation pattern*
- Optional inverted mountable model

Side or tower top mountable

Description

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

The JAG-150-2-1/2+JAG-450-4-1/2-F 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.

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 10.5-feet diagonally.

The JAG-150-2-1/2+JAG-450-4-1/2-F is fully appreciated serving sites that require many transmitters and receivers feeding a single antenna across a broad range of VHF and UHF 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+JAG-450-4-1/2-F 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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150-2-1/2+JAG-450-4-1/2-F Product Specification Sheet.



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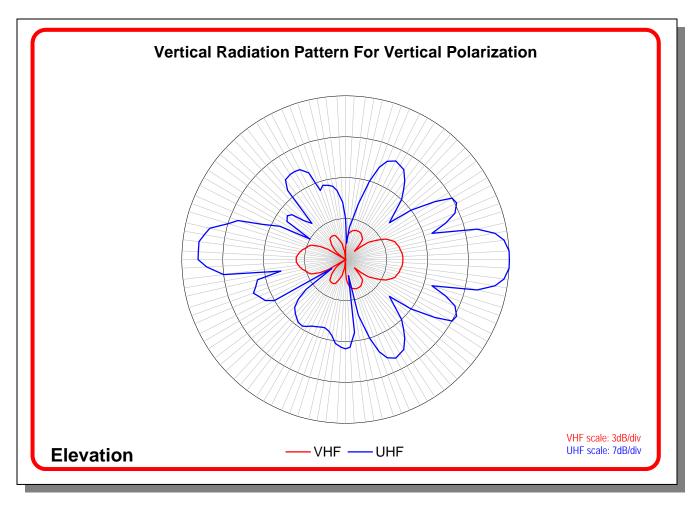
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JAG-150-2-1/2+JAG-450-4-1/2-F



* This is a general representation of the Delta2 Series JAG-150-2-1/2+JAG-450-4-1/2-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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Electromagnetics

Issue: 1

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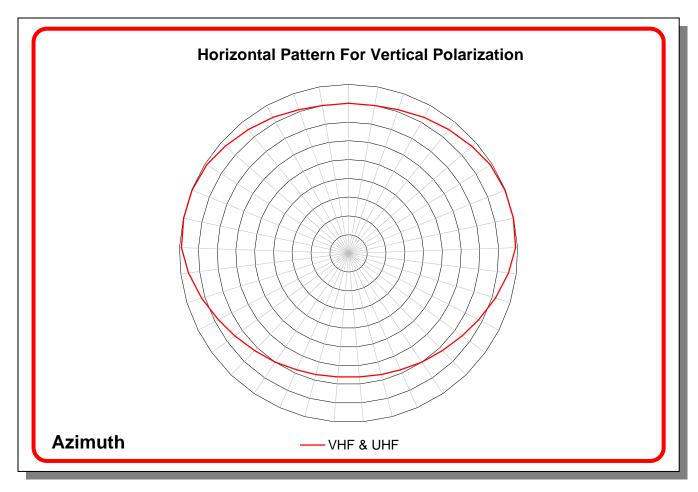
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