Delta1 Series

EXPOSED FOLDED WHF **DIPOLE 4-Bay Array** 406-512 MHz



JAG-450-4-1/2-SM





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











hand	
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hand	

Electrical Specifications			nanical Spe	cifications	Environmental Model JAG-450-4-1/2-SM Survival Wind Velocity With no Ice mph (km/h) 175 (282) Survival Wind Velocity With Ice mph (km/h) 110 (177) Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7) Equivalent Flat Plate Area ft^2 (m^2) 1.91 (0.18) Lateral thrust (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 22 (29.7) Bending moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 153 (206.6)	
Model JAG-450-4-1/2-S	Model JAG-450-4-1/2-SM			Model JAG-450-4-1/2-SM		
Frequency Range (MHz)	406 – 512	Height	inches (mm)	84 (2,133.6)	Survival Wind Velocity With no Ice	mph (km/h) 175 (282)
Bandwidth @ 1.5:1 VSWR or Better (MHz)	106	Width	inches (mm)	16 (406)	Survival Wind Velocity	
Polarization	Vertical	Depth	inches (mm)	4.25 (108)	With Ice	mph (km/h) 110 (177)
	al (Elliptical)	Weight	lb (kg)	20 (9)	Maximum Allowable Radial Ice Buildup	inches (mm) 0.5 (12.7)
Nominal Gain (dBd)	6.45 – 7.0	- Support Mast Outside Diameter		2.375 (60.3)	Equivalent Flat Plate Area	ft^2 (m^2) 1.91 (0.18)
Nominal Horizontal 3dB Beamwidth (Deg)	205 – 215	Support M Allowable	Inches (mm) Mast Clamping Space*	2.370 (00.3)	Lateral thrust (100mph 0 Radial Ice Buildup	
Nominal Vertical 3dB Beamwidth (Deg)	15 – 19	Inches (mm) 15 (381)		Torsional moment (100	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Maximum Power (Watts)*	200	- Mounting Information No clamps supplied* (See JAG clamps page for suitable clamps)		0 Radial Ice Buildup	ft-lbs (Nm) 22 (29.7)	
Lightning Protection	DC Ground	Digtail (ft)	& RF Connector (0.5 – 1.0 & 'N' Male	 Bending moment (100) 0 Radial Ice Buildup 	mph) ft-lbs (Nm) 153 (206.6)

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Features

- 2-year factory warranty (See page 3)
- Broadband (106 MHz)
- Suitable for multi-frequency systems
- Soldered internal joints
- Small for easy transport and installation
- Fits in standard Otis Elevators
- DC Grounded
- Stainless steel hardware
- Easy storage
- Low PIM
- Operation in harsh environments
- Optional lightning rod spike
- Optional downtilt versions
- Optional inverted mountable model

- Side or tower top mountable
- Optional coatings such as black paint
- Courier shippable
- Ideal for monitoring stations

Description

The JAG-450-4-1/2-SM is a 4-bay version of the JAG-450-1-1/2, incorporating all the features of the basic model into a high gain antenna needed in certain system applications. The JAG-450-4-1/2-SM is supplied with either quarter-wave (JAG-450-4-1/4-SM) or half-wave (JAG-450-4-1/2-SM) dipole-to-mast spacing. Site-specific mounting hardware is required with these antennas. Please consult JAG for suitable clamps.

The JAG-450-4-1/2-SM offers a short mast design (only seven feet in length) to facilitate easy transport, rooftop access, and installation resulting in a cost effective antenna for urban sites.

As a result of the antennas 7-foot compact design, it is shippable by most courier companies such as FedEx. This is much more convenient than traditional freight shipping required for comparable antennas.

The JAG-450-4-1/2-SM, with its rugged construction, lightweight 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-450-4-1/2-SM at a glance



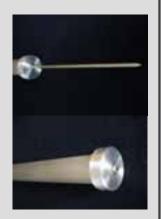
Expert TIG welding



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

L7L 7E2 Canada



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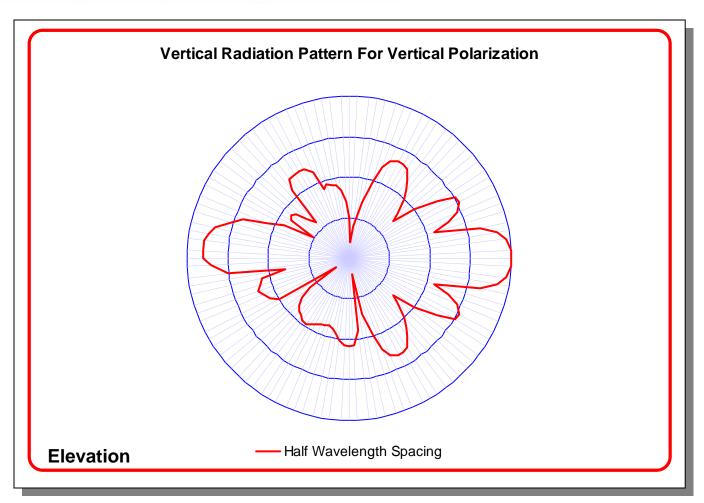
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JAG's dedication to continuous Research & Development will result in product improvements as they

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JAG-450-4-1/2-SM



^{*} This is a general representation of the Delta1 Series JAG-450-4-1/2-SM 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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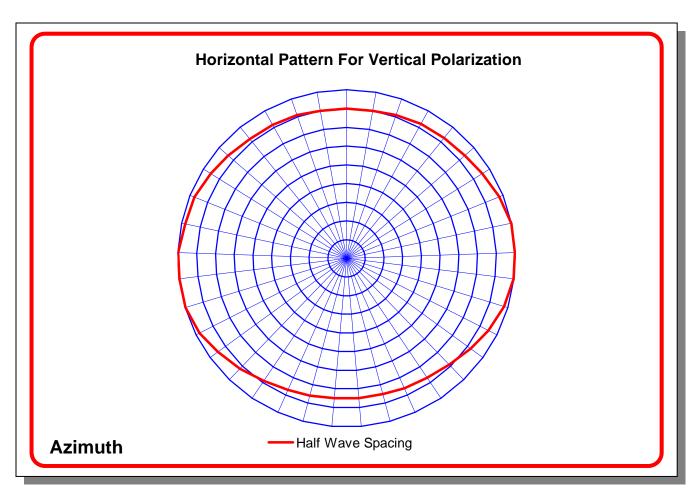


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