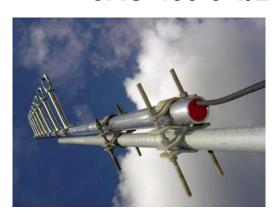


Electromagnetics "Quality is everything."

JAG-450-8-1/2





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











Electrical Specifications		Environmental Model JAG-450-8-1/2 Survival Wind Velocity With no Ice mph (km/h) 110 (177) Survival Wind Velocity With Ice mph (km/h) 80 (128) Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7) Equivalent Flat Plate Area ft^2 (m^2) 3.54 (0.33) Lateral thrust (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 43 (58.1) Bending moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 632 (853.2)
Model JAG-450-8-1/2	Model JAG-450-8-1/2	Model JAG-450-8-1/2
Frequency Range (MHz) 406 – 512	Height inches (mm) 204 (5,182)	Survival Wind Velocity With no Ice mph (km/h) 110 (177)
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) 80 (128)
Radiation Pattern Bi-directional (Elliptical)	- Weight lb (kg) 49 (22.05)	Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7)
Nominal Gain (dBd) 8.9 – 9.2	Support Mast Outside Diameter Inches (mm) 2.375 (60.3)	Equivalent Flat Plate Area ft^2 (m^2) 3.54 (0.33)
Nominal Horizontal 3dB Beamwidth (Deg) 205 – 215	Support Mast Allowable Clamping Space	Lateral thrust (100mph) 0 Radial Ice Buildup Ibs (N) 144 (640.5)
Nominal Vertical 3dB Beamwidth (Deg) 7 – 9	Inches (mm) 56 (1,422.4)	Torsional moment (100mph)
Maximum Average Power (Watts) 300	- Mounting Information No clamps supplied* *(See JAG clamps page for suitable clamps)	0 Radial Ice Buildup ft-lbs (Nm) 43 (58.1)
Lightning Protection DC Ground	Pigtail (ft) & RF Connector 10 – 10.5 & 'N' Male	Bending moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 632 (853.2)

Dated: April-10-2010

JAG-450-8-1/2 Product Specification Sheet.



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Delta1 Series

EXPOSED FOLDED VHF

JAG-450-8-1/2

Features

- 2-year factory warranty (See page 3)
- Broadband (106 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

- Side or tower top mountable
- Optional coatings
- Ideal for monitoring stations

Description

The JAG-450-8-1/2 is an 8-bay version of the JAG-450-1-1/2, incorporating all the features of the basic model into an extremely high gain antenna needed in certain system applications. The JAG-450-8-1/2 is supplied with either quarter-wave (JAG-450-8-1/4) or halfwave (JAG-450-8-1/2) dipole-to-mast spacing. Sitespecific mounting hardware is required with these antennas. Please consult JAG for suitable clamps.

The JAG-450-8-1/2 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-450-8-1/2, 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-450-8-1/2 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

Dated: April-10-2010



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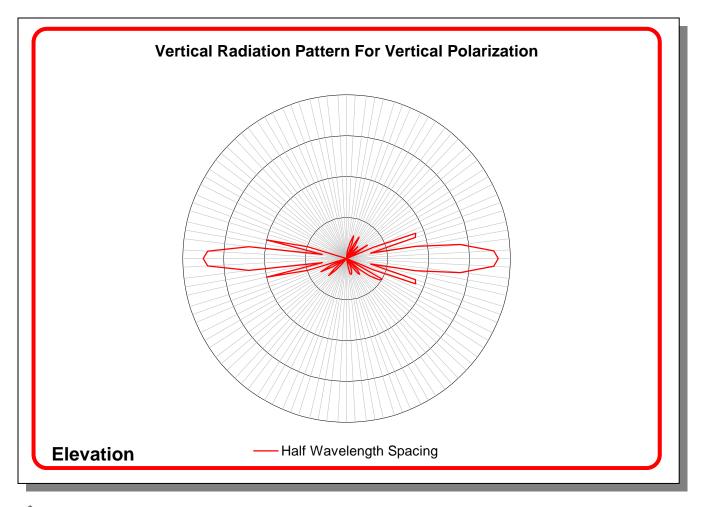
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Specifications are subject to change without notice. As a result, all information contained in the present datasheet is subject to confirmation at time of ordering.



JAG-450-8-1/2



^{*} This is a general representation of the Delta0 Series JAG-450-8-1/2 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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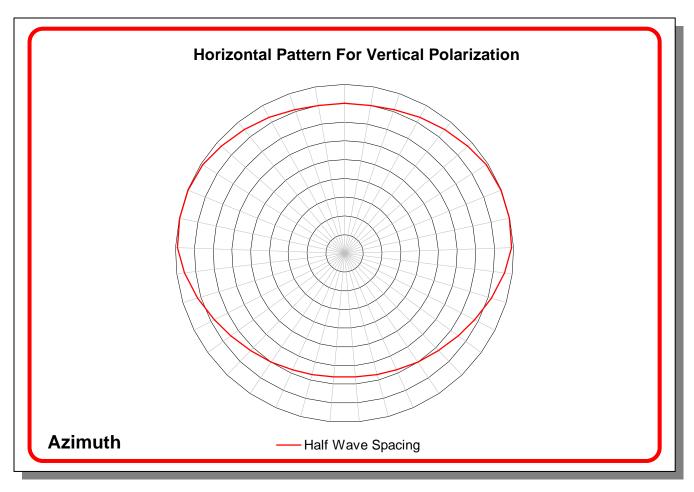


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JAG-450-8-1/2



* This is a general representation of the Delta0 Series JAG-450-8-1/2 antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

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