



138-174 MHz & 406-512 MHz

Electromagnetics "Quality is everything."

JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE





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











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0-2-1/2+JAG-450-8-1/2-F-SIDE Product Specification Sheet	
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0-2-1/2	

Electrical Specifications		Environmental Model JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE 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) 5.64 (0.525) Lateral thrust (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 126 (170.1) Bending moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 879 (1,187)
Model JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE	Model JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE	Model JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE
Frequency Range (MHz) 138 – 174 / 406 – 512	Height inches (mm) 312 (7,925)	Survival Wind Velocity With no Ice mph (km/h) 110 (177)
Bandwidth @ 1.5:1 VSWR or Better (MHz) 36 (VHF) / 106 (UHF)	Width inches (mm) 42 (1,066.8)	Survival Wind Velocity
Polarization Vertical	Depth inches (mm) 4.25 (108)	With Ice mph (km/h) 80 (128)
Radiation Pattern Elliptical (VHF) / Elliptical (UHF)	- Weight Ib (kg) 75 (34.04)	Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7)
Nominal Gain (dBd) 3 – 3.7 (VHF) / 8.9 – 9.2 (UHF)	Support Mast Outside Diameter Inches (mm) 2.375 (60.3)	Equivalent Flat Plate Area ft^2 (m^2) 5.64 (0.525)
Nominal Horizontal 3dB Beamwidth (Deg) 205 – 215	Support Mast *See JAG Delta2 Series application notes for details Allowable Clamping Space	Lateral thrust (100mph) 0 Radial Ice Buildup Ibs (N) 221 (983)
Nominal Vertical 33 – 35 (VHF) 3dB Beamwidth (Deg) 7 – 9 (UHF)	Inches (mm) 312 (7,925)*	Torsional moment (100mph)
Maximum Average Power (Watts) 200 (VHF) / 300 (UHF)	Mounting Information No clamps supplied (See JAG clamps page for suitable clamps)	0 Radial Ice Buildup ft-lbs (Nm) 126 (170.1)
Lightning Protection DC Ground	Pigtail (ft) & RF Connector 1 – 1.5 & 'N' Male	- Bending moment (100mph) 0 Radial Ice Buildup ft-Ibs (Nm) 879 (1,187)

Dated: February-21-2011



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JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE

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
- Adjustable radiation pattern*
- Optional inverted mountable model

Side or tower top mountable

JAG Delta2 Series application notes for details

Description

The JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE is a side mount 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-to-mast spacing. Depending on the coverage pattern required, this antenna can also be ordered with 1/4λ VHF spacing and 1/2λ UHF spacing or vise versa.

The JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE 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 13.5-feet diagonally.

The JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE 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 or outriggers can be avoided and minimize danger.

JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE at a glance



Antenna arrives in 2 sections



Feed cable through bottom mast



Swing base section out, align, bolt flanges together and erect.



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

Dated: February-27-2011

150-2-1/2+JAG-450-8-1/2-F-SIDE Product Specification Sheel



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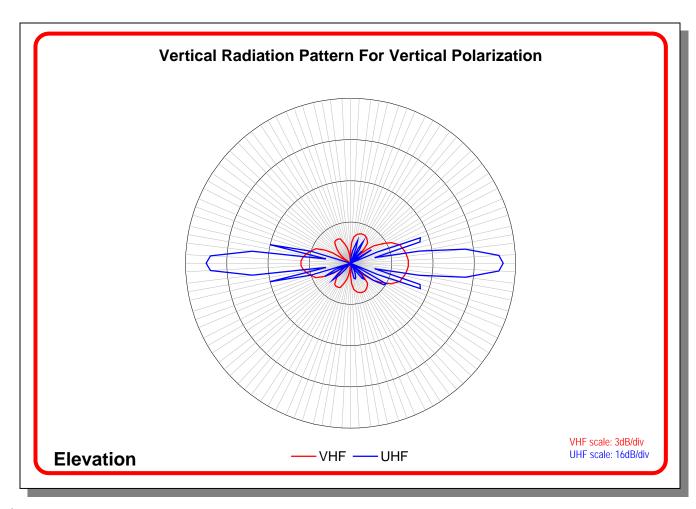
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Specifications are subject to change without notice.

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JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE



* This is a general representation of the Delta2 Series JAG-150-2-1/2+JAG-450-8-1/2-F-SIDE 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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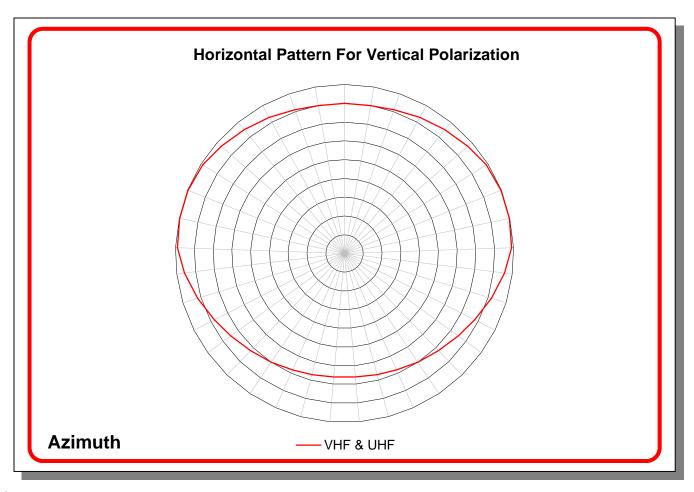
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Specifications are subject to change without notice. As a result, all information contained in the present datasheet is subject to confirmation at time of ordering



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