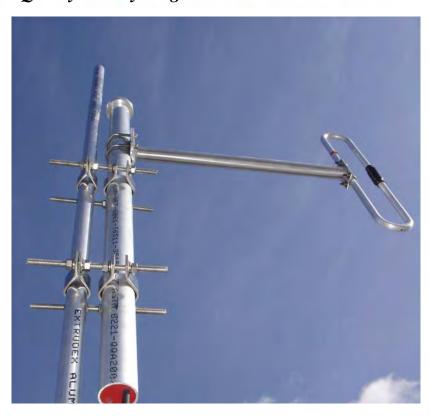
EXPOSED FOLDED VHF **DIPOLE 1-Bay Array** 195-250 MHz

JAG-220-1-1/2





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











EXTRUCEX ALUM			Land mobile networks Public security and safety Transportation networks Environmental Model JAG-220-1-1/2 219.2) Survival Wind Velocity With no Ice mph (km/h) 190 (306) 12.8) Survival Wind Velocity With Ice mph (km/h) 150 (242) Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7) Equivalent Flat Plate Area ft^2 (m^2) 0.96 (0.09) Lateral thrust (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 27 (36.5) Bending moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 35 (47.3)
Electrical Specific		Mechanical Specificatio	ons Environmental
Model JAG-220-1-1/2		Model JAG-220-1-1/2	Model JAG-220-1-1/2
Frequency Range (MHz)	195 – 250	Height inches (mm) 48 (1,2	219.2) Survival Wind Velocity With no Ice mph (km/h) 190 (306)
Bandwidth @ 1.5:1 VSWR or Better (MHz)	55	Width inches (mm) 32 (812	Survival Wind Velocity Nills Inc. (242)
Polarization	Vertical	Depth inches (mm) 4.25 (1)	108) With Ice mph (km/h) 150 (242)
Radiation Pattern Bi-directi	ional (Elliptical)	Weight lb (kg) 11 (4.9 Support Mast	99) Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7)
Nominal Gain (dBd)	1.45 – 1.80	Outside Diameter Inches (mm) 2.375 (Equivalent Flat Plate (60.3) Area ft^2 (m^2) 0.96 (0.09)
Nominal Horizontal 3dB Beamwidth (Deg)	205 – 215	Support Mast Allowable Clamping Space	Lateral thrust (100mph) 0 Radial Ice Buildup lbs (N) 36 (160.1)
Nominal Vertical 3dB Beamwidth (Deg)	66 – 70	Inches (mm) 24 (300	Torsional moment (100mph)
Maximum Power (Watts)	150	 Mounting Information No clamps supplied (See JAG clamps page for suitable clamps) 	od Radial Ice Buildup ft-lbs (Nm) 27 (36.5) Bending moment (100mph)
Lightning Protection	DC Ground	Pigtail (ft) & RF Connector 3 – 3.5 & 'N' N	Male 0 Radial Ice Buildup ft-lbs (Nm) 35 (47.3)



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EXPOSED FOLDED WHF **DIPOLE 1-Bay Array**

195-250 MHz

JAG-220-1-1/2

Features

2-year factory warranty (See page 3)

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Broadband (55 MHz)

"Quality is everything.

- Suitable for multi-frequency systems
- Soldered internal joints
- 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
- Natural rubber plugs
- Optional inverted mountable model
- Side or tower top mountable
- Optional coatings such as black paint
- Ideal for mobile command vehicles

Ideal for monitoring stations

Description

The JAG-220-1-1/2 is the fundamental building block of the finest 220 MHz folded dipole arrays on the market today. Its unique high efficiency wide bandwidth design allows it to cover the entire 195-250 MHz frequency span with a VSWR of 1.5:1 or better. Because of its bandwidth and very low intermodulation response, the JAG-220-1-1/2 is useful in a wide range of functions ranging from trunking, business, public safety, government and even armature radio plus endless other applications.

The JAG-220-1-1/2 as well as the rest of the multi-bay arrays that are based on it feature 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-220-1-1/2, 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-220-1-1/2 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

RF EMI Engineering Technology

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Burlington, Ontario L7L 7E2 Canada



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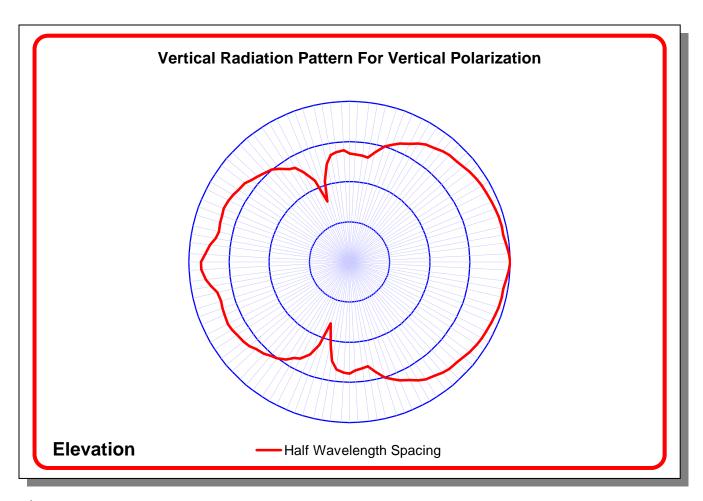
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JAG's dedication to continuous Research & Development will result in product improvements as they

EXPOSED FOLDED WHF **DIPOLE 1-Bay Array** 195-250 MHz



JAG-220-1-1/2



^{*} This is a general representation of the Delta1 Series JAG-220-1-1/2 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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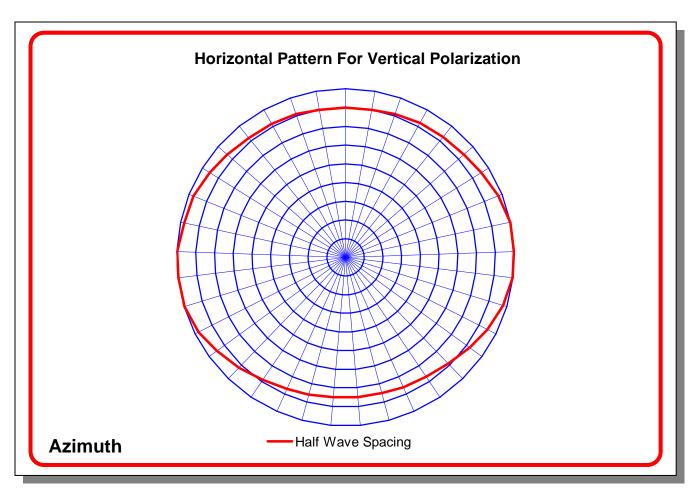
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EXPOSED FOLDED UHF **DIPOLE 1-Bay Array** 195-250 MHz



JAG-220-1-1/2



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