

JAG-220-8-EX

*Dipoles shown with black paint option



Mast NOT included



- Amateur Radio
- Trunking networks
- Land mobile networks
- Public security and safety
- Transportation networks











Electrical Specifications	Mechanical Specifications	Environmental
Model JAG-220-8-EX "Value depends on λ spacing and dipole orientations"	Model JAG-220-8-EX "Based on If dipoles mounted on 38-foot 2-Inch AL mast pipe	Model JAG-220-8-EX
Frequency Range (MHz) 195 – 245	Height inches (mm)*** 300 (7,620)	Survival Wind Velocity With no Ice "Values based on 38-foot 2-inch O.D. AL mast & 193, spacing mph (km/h) 95 (153)*
Bandwidth @ 1.5:1	Width inches (mm)*** 36 (914.4)	Currying I Wind Wolcoity, Values based on 38-foot 2-inch O.D. AL
VSWR or Better (MHz) 50	Depth inches (mm)*** 4.25 (108)	Survival Wind Velocity With Ice was & %\(\text{spacing}\) mph (km/h) 65 (105)*
Polarization Vertical	Weight Ib (kg) "Value based on supplied anlenna without AL mast 85 (38.25)*	Maximum Allowable "Values based on 38-foot 2-inch O.D. AL mast & უს. spacing
Radiation Pattern Adjustable (See pages 2 & 3)**	Support Mast *See JAG Delta0 Series application notes for details	Radial Ice Buildup inches (mm) 0.5 (12.7)*
Nominal Gain (dBd) 8.9 – 9.7 (Depending on spacing)**	Outside Diameter No mast supplied* *(See JAG pipes page for suitable masts)	Equivalent Flat Plate "Values based on 38-foot 2-inch O.D. AL mast & ৮/১ spacing ft^2 (m^2) 9.54 (0.891)*
Nominal Horizontal		
3dB Beamwidth (Deg) 205 – 215	Support Mast *See JAG Delta0 Series application notes for details Allowable Clamping Space	Lateral thrust (95mph) O Radial Ice Buildup Usub Salvat Sanding Values based on 38-toot 2-inch O.D. AL mast & ½\lambda. spacing Ibs (N) 366 (1,628)*
Nominal Vertical	Inches (mm) N/A*	Malura hand a 20 feet 2 link O.D.
3dB Beamwidth (Deg) 7 – 9	Mounting Information 8 dipole clamps supplied	Torsional moment (95mph) Value asset on 33-on Jan (195 Mph) O Radial Ice Buildup ft-lbs (Nm) 337 (454.9)*
Maximum Average Power (Watts) 300	3 1 1 11	7/1 / 1 / 2/10/100
Lightning Protection DC Ground	Pigtail (ft) & RF Connector 1 – 1.5 & 'N' Male Note: See JAG antenna options page for other connectors and pigtall lengths.	Bending moment (95mph) Values based on 34-foot 2-forch O.D. AL mast & ½3, spacing O Radial Ice Buildup ft-lbs (Nm) 1566 (2,114)*

Dated: July-07-2011

JAG-220-8-EX Product Specification Sheet.



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DeltaO Series

EXPOSED FOLDED VHF

JAG-220-8-EX

Electromagnetics "Quality is everything."

Features

- 5-year factory warranty (See page 3)
- Broadband (50 MHz)
- Suitable for multi-frequency systems
- Soldered internal joints
- Small for easy transport and installation
- Field adjustable pattern and gain
- DC Grounded
- Stainless steel hardware
- Easy storage
- Operation in harsh environments
- Optional mast pipe can be supplied*
- Natural rubber plugs
- Side of tower or structure mountable
- Optional coatings such as black paint
- Optional downtilt versions
- Ideal for rented or temporary repeaters

Ideal for monitoring stations

Description

The JAG-220-8-EX is an 8-bay version of the JAG-220-1-EX. Its unique high efficiency wide bandwidth design allows it to cover the entire 195-245 MHz frequency span with a VSWR of 1.5:1 or better. Because of its bandwidth and very low intermodulation response, the JAG-220-8-EX is useful in a wide range of functions ranging from trunking, business, public safety, government and even amateur radio plus endless other applications.

The JAG-220-8-EX 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 high quality coax, soldered and welded joints as well as minimized dissimilar metal contacts ensure trouble free

This series (Delta0) is based on an external harness design, which allows easy field adjustment of gain and radiation pattern. The external harness design also offers flexibility in mounting scenarios from tower legs to various pipe sizes. The absence of bulky masts, make Delta0 series easy to transport, install, and ship. Shipping costs are much cheaper for Delta0 series antennas.

Rugged construction, lightweight, and ease of installation, make the JAG-220-8-EX ideal for leased or rented system use. Its bandwidth also makes it perfect to stock for re-use or re-sale.

JAG-220-8-EX at a glance

Note: Only one of the dipoles out of the 8 bays is shown here for illustration purposes Gain values below represent complete antenna (not a single dipole)



1/4 - wave spacing (9.4 - 9.7 dBd gain)(Offset pattern)



½ - wave spacing (8.9 - 9.2 dBd gain) (Bi-directional / Elliptical pattern)



Heavy-duty dipole fixture



Natural rubber plugs & Heavy-duty galvanized clamp w/S.S. hardware

*Site-specific mounting masts and clamps are recommended for Delta0 Series antennas. Please consult JAG to determine suitable accessories for your application

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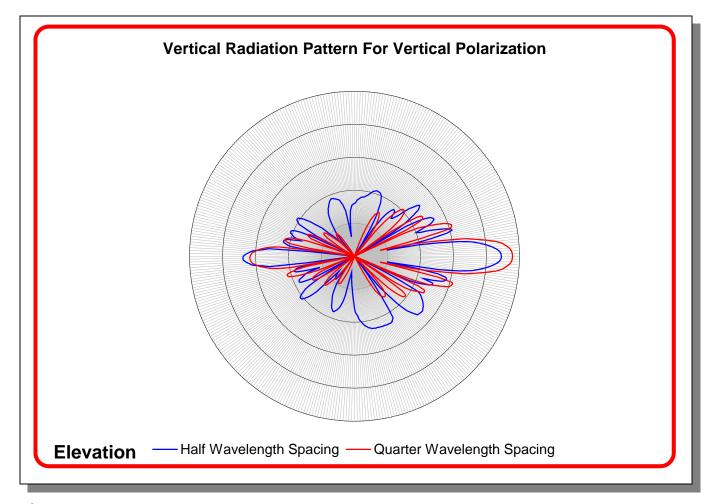
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JAG-220-8-EX



^{*} This is a general representation of the Delta0 Series JAG-220-8-EX 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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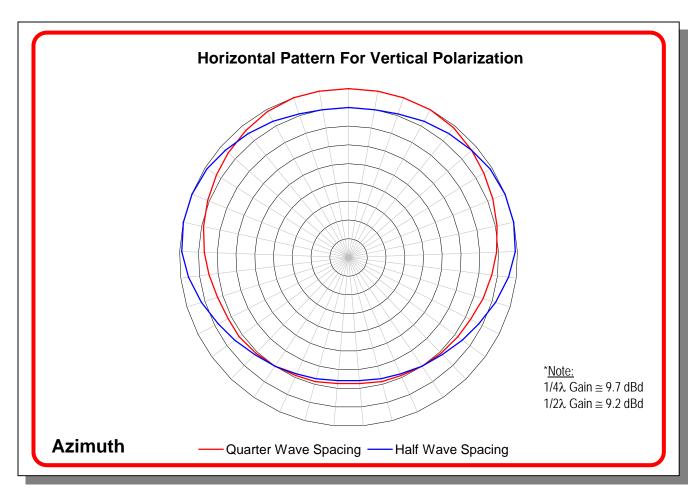
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