



Delta1 Series

**EXPOSED FOLDED** 800 MHz  
900 MHz

**DIPOLE** Doubled 4-Bay Array  
890-960 MHz



**Electromagnetics**

“Quality is everything.”

**JAG-925-2X4-OMD**



- Multi-Channel / Trunked Systems
- Spread Spectrum
- Land mobile networks
- Public security and safety
- Transportation / Oil & Gas networks



JAG-925-2X4-OMD Product Specification Sheet.

Electrical Specifications		Mechanical Specifications		Environmental	
Model	JAG-925-2X4-OMD	Model	JAG-925-2X4-OMD	Model	JAG-925-2X4-OMD
Frequency Range (MHz)	890 – 960	Height	inches (mm) 102 (2,591)	Survival Wind Velocity With no Ice	mph (km/h) 175 (282)
Bandwidth @ 1.5:1 VSWR or Better (MHz)	70	Width	inches (mm) 9 (228.6)	Survival Wind Velocity With Ice	mph (km/h) 110 (177)
Polarization	Vertical	Depth	inches (mm) 9 (228.6)	Maximum Allowable Radial Ice Buildup	inches (mm) 0.5 (12.7)
Radiation Pattern	Omnidirectional	Weight	lb (kg) 23 (10.4)	Equivalent Flat Plate Area	ft <sup>2</sup> (m <sup>2</sup> ) 1.73 (0.16)
Nominal Gain (dBd)	5.5 – 6	Support Mast Outside Diameter Inches (mm)	2.375 (60.3)	Lateral thrust (100mph) 0 Radial Ice Buildup	lbs (N) 70 (311.4)
Nominal Horizontal 3dB Beamwidth (Deg)	N/A	Support Mast Allowable Clamping Space Inches (mm)	55 (1,397)*	Torsional moment (100mph) 0 Radial Ice Buildup	ft-lbs (Nm) 11 (14.9)
Nominal Vertical 3dB Beamwidth (Deg)	14 – 16	Mounting Information	No clamps supplied* *(See JAG clamps page for suitable clamps)	Bending moment (100mph) 0 Radial Ice Buildup	ft-lbs (Nm) 132 (178.2)
Port-to-Port Isolation (dB)	N/A	Pigtail (ft) & RF Connector	2 – 2.5 & 'N' Male		
Maximum Average Power (Watts)	300				
Lightning Protection	DC Ground				

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.

Dated: January-14-2013

Issue: 1

Made in Canada

Rev011413.0

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RF EMI Engineering Technology  
26-1750 Creek Way  
Burlington, Ontario  
L7L 7E2 Canada

Email: [info@jagelectromagnetics.com](mailto:info@jagelectromagnetics.com)  
Web: [www.jagelectromagnetics.com](http://www.jagelectromagnetics.com)  
Tel (905)-635-7437  
Fax (905)-332-8093



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

- 5-year factory warranty (See page 3)
- Broadband (70 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 spread-spectrum applications

Description

The JAG-925-2X4-OMD was initially designed for the oil and gas industry that required a robust **omni-directional** base station SCADA antenna with improved lightning strike survivability over traditional fiberglass antennas offered by most other manufacturers. Although JAG Electromagnetics cannot guarantee antenna survivability from a direct lightning strike, the JAG-925-2X4-OMD does provide a higher probability of high energy current being directed into the earth in the event of a direct lightning strike. This is especially appreciated when there are highly volatile and sensitive elements and equipment in the vicinity such as in an oil or gas field.

The JAG-925-2X4-OMD features 6061-T6 aluminum and stainless steel construction. Features such as the internal phasing harness and fixed **omni-directional** configuration protect the antenna from the elements ensuring trouble free operation. Its bandwidth also makes it perfect to stock for re-use or re-sale.

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.

JAG-925-2X4-OMD at a glance



Expert TIG welding



Fully sealed internal phasing harness



Optional lightning rod



Pigtail for easy weather proofing

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

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26-1750 Creek Way  
Burlington, Ontario  
L7L 7E2 Canada

Email: [info@jagelectromagnetics.com](mailto:info@jagelectromagnetics.com)  
Web: [www.jagelectromagnetics.com](http://www.jagelectromagnetics.com)  
Tel (905)-635-7437  
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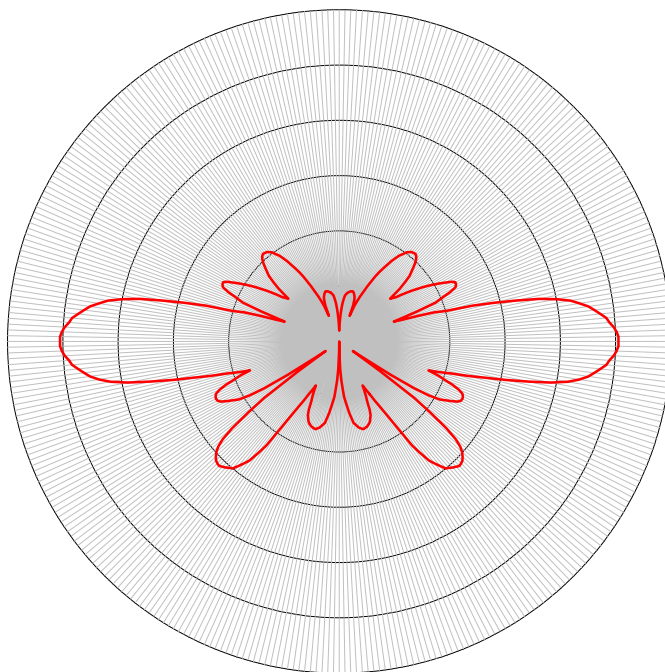
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# Electromagnetics

*"Quality is everything."*

## JAG-925-2X4-OMD

### Vertical Radiation Pattern For Vertical Polarization



Elevation

— Omni

\* This is a general representation of the Delta1 Series JAG-925-2X4-OMD 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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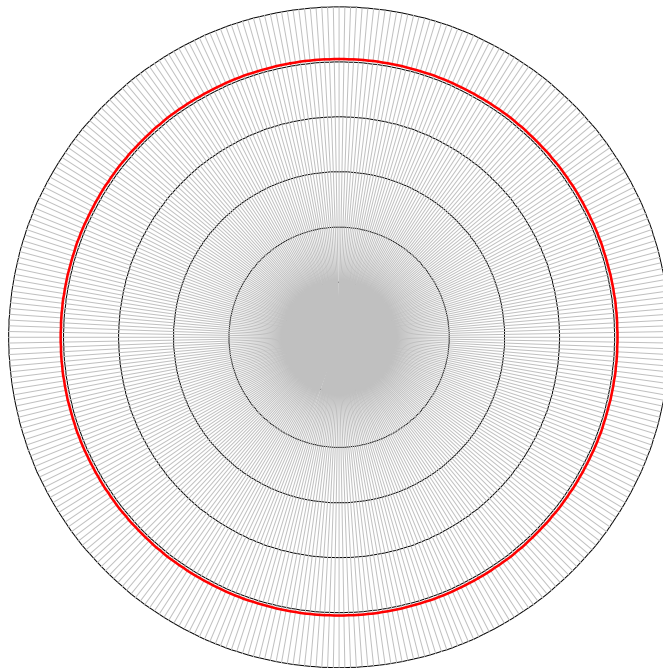
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JAG-925-2X4-OMD



Horizontal Radiation Pattern For Vertical Polarization



Azimuth

— Omni

\* This is a general representation of the Delta1 Series JAG-925-2X4-OMD antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

Toronto:

JAG Electromagnetics  
26-1750 Creek Way  
Burlington, ON, L7L 7E2  
Canada  
Tel (905)-635-7437  
Fax (905)-332-8093  
Email: info@jagelectromagnetics.com

Saskatoon:

JAG Electromagnetics  
30065-1624 33<sup>rd</sup> St. W  
Saskatoon, SK, S7L 7M6  
Canada  
Tel (905)-635-7437  
Fax (905)-332-8093  
Email: info@jagelectromagnetics.com

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