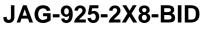


**Delta1 Series** EXPOSED FOLDED 900 MHz 900 MHz

**DIPOLE** Doubled 8-Bay Array 890-960 MHz







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



Electrical Specifications	Mechanical Specifications	Environmental
Model JAG-925-2X8-BID	Model JAG-925-2X8-BID	Model JAG-925-2X8-BID
Frequency Range (MHz) 890 – 960	Height inches (mm) 144 (3,658)	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
Polarization Vertical	Depth inches (mm) 4.5 (114.3)	With Ice mph (km/h) 110 (177)
Radiation Pattern Bidirectional	Weight lb (kg) 30 (13.6)	Maximum Allowable
	Support Mast	Radial Ice Buildup inches (mm) 0.5 (12.7)
Nominal Gain (dBd) 8.5 – 9	Outside Diameter Inches (mm) 2.375 (60.3)	Equivalent Flat Plate Area ft^2 (m^2) 1.91 (0.18)
Nominal Horizontal 3dB Beamwidth (Deg) N/A	Support Mast "See JAG Delta1 Series application notes for details	Lateral thrust (100mph)
Nominal Vertical 3dB Beamwidth (Deg) 7 – 8	Allowable Clamping Space Inches (mm) 55 (1,397)*	0 Radial Ice Buildup Ibs (N) 77 (342.5)
Port-to-Port Isolation (dB) N/A	Mounting Information No clamps supplied*	Torsional moment (100mph) 0 Radial Ice Buildup ft-Ibs (Nm) 22 (29.7)
Maximum Average Power (Watts) 300	*(See JAG clamps page for suitable clamps)	
Lightning Protection DC Ground	Pigtail (ft) & RF Connector 2 – 2.5 & 'N' Male	Bending moment (100mph) 0 Radial Ice Buildup ft-Ibs (Nm) 153 (206.6)

Dated: January-20-2013 Issue: 1



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

Email: info@jagelectromagnetics.com Web: www.jagelectromagnetics.com Tel (905)-635-7437 Fax (905)-332-8093

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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.



**Delta1 Series** 

EXPOSED FOLDED 900 MHz



#### **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-925-2X8-OMD was initially designed for the oil and gas industry that required a robust bidirectional 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-925-2X8-OMD does provided 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-925-2X8-OMD features 6061-T6 aluminum and stainless steel construction. Features such as the internal phasing harness and fixed bi-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-925-2X8-BID at a glance



Expert TIG welding

JAG to determine suitable clamps for your application

Dated: January-20-2013



Fully sealed internal phasing harness



Optional lightning rod

Pigtail for easy weather proofing

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Site-specific mounting hardware is necessary with theses antennas. Please consult

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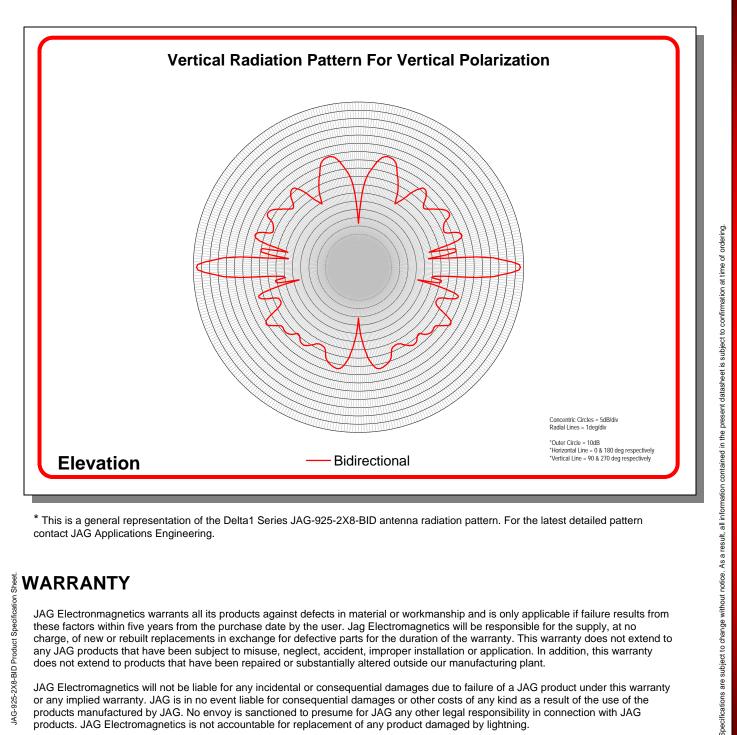
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**Delta1 Series** EXPOSED FOLDED 900 MHz



**JAG-925-2X8-BID** 



\* This is a general representation of the Delta1 Series JAG-925-2X8-BID 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 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.

Dated: January-20-2013

IAG-925-2X8-BID Product Specification

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Electromagnetics

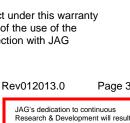
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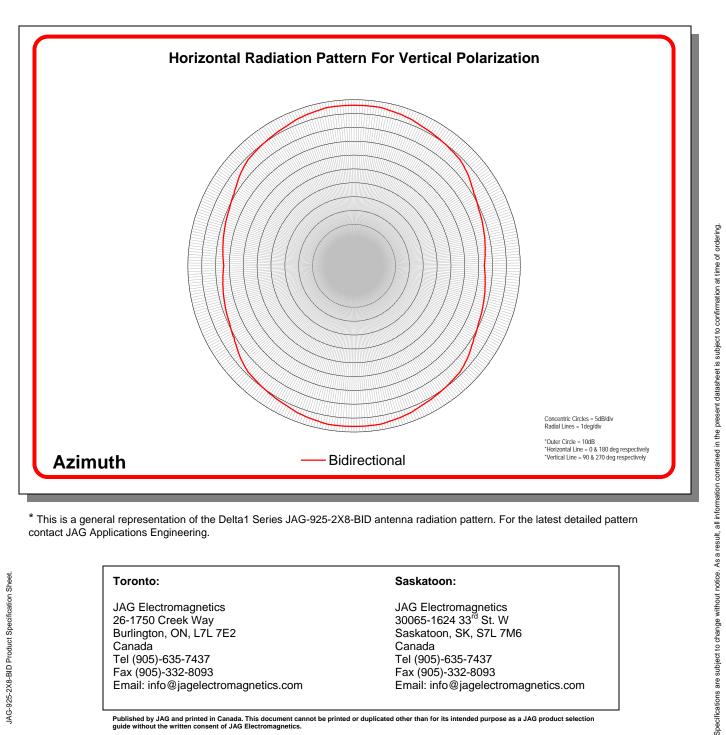




**Delta1 Series** EXPOSED FOLDED 900 MHz

890-960 MHz

# **JAG-925-2X8-BID**



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#### 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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