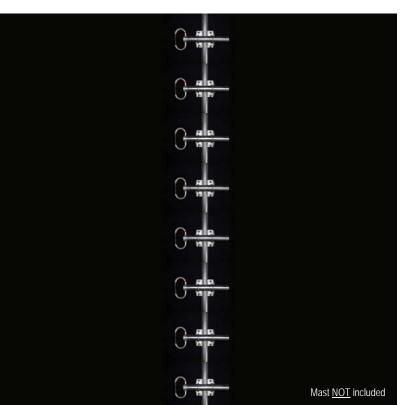


Delta0 Series EXPOSED FOLDED 900 MHz **DIPOLE 8-Bay Array** 806-870 MHz



JAG-850-8-EX



**Value depends on λ spacing and dipole orientations

806 - 870

64

Vertical

Adjustable (See pages 2 & 3)**

8.9 - 9.7 (Depending on spacing)**

205 - 215

7 – 9

150

Model

Height

Width

Depth

Weight

Support Mast

Support Mast

· See IAG antenna onti

Outside Diameter



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



	Environment	al		od in the ner	opedifications are subject to charige without holice. As a result, all information contained in the present datastreet is
Model JAG-850-8-EX					CUIIIaIII
	Survival Wind Velocity With no Ice	°Values based on 15-foot 2-inch O.D. Al mast & సన spacing mph (km/h) 110 (177)*	L	oformation	
	Survival Wind Velocity With Ice	"Values based on 15-foot 2-inch O.D. Al mast & ½λ spacing mph (km/h) 80 (128)*	L	illo throat	lesun, an I
	Maximum Allowable Radial Ice Buildup	°Values based on 15-foot 2-inch O.D. Al mast & సన spacing inches (mm) 0.5 (12.7)		otico Ac o	IULICE. AS a
	Equivalent Flat Plate Area	"Values based on 15-foot 2-inch O.D. Al mast & 1% spacing ft^2 (m^2) 3.54 (0.33)		a suisbout a	he will iour i
	Lateral thrust (100mph) 0 Radial Ice Buildup	*Values based on 15-foot 2-inch O.D. Al mast & % spacing Ibs (N) 144 (640.5		of to chood	
	Torsional moment (100mph) Values based on 15-foot 2-inch O.D. AL mast & Vol. spacing 0 Radial Ice Buildup ft-lbs (Nm) 43 (58.1)*				
	Bending moment (100mp 0 Radial Ice Buildup			Choolfication	opecificatio.
de in Canada Rev041010.0 Page 1/4					

· ·		
Dat	ted: April-10-2010	Issue: 1

Maximum Average Power (Watts)

Electrical Specifications

JAG-850-8-EX

Model

Polarization

Sheet.

AG-850-8-EX Product Specification

Frequency Range (MHz)

Bandwidth @ 1.5:1

Radiation Pattern

Nominal Gain (dBd)

Nominal Horizontal

Nominal Vertical

3dB Beamwidth (Deg)

3dB Beamwidth (Deg)

Lightning Protection

VSWR or Better (MHz)

Electromagnetics

RF EMI Engineering Technology 26-1750 Creek Way Burlington, Ontario

L7L 7E2 Canada

DC Ground

Email: info@jagelectromagnetics.com Web: www.jagelectromagnetics.com Tel (647)-746-5937 Fax (905)-332-8093

Mounting Information 8 dipole clamps supplied

Pigtail (ft) & RF Connector 1 – 1.5 & 'N' Male

Mechanical Specifications

JAG-850-8-EX

inches (mm)***

inches (mm)***

inches (mm)***

*(See JAG pipes page for suitable masts)

Inches (mm)

lb (kg)

Allowable Clamping Space

*Value based on supplied antenna without AL mast

***Based on if dipoles mounte on 15-foot 2-inch AL mast pip

180 (4,572)

13 (330.2)

2 (50.8)

20 (9)*

*See JAG Delta0 Series application notes for details

*See JAG Delta0 Series application notes for details

N/A*

No mast supplied*

Ma

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

Copyright © JAG Electromagnetics



Delta0Series

EXPOSED FOLDED 800 MHz 900 MHz

JAG-850-8-EX

Features

- 2-year factory warranty (See page 3)
- Broadband (64 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 or tower top mountable
- Optional coatings such as black paint
- Ideal for mobile command vehicles
- Ideal for rented or temporary repeaters

Description

The JAG-850-8-EX is an 8-bay version of the JAG-850-1-EX. Its unique high efficiency wide bandwidth design allows it to cover the entire 806-870 MHz frequency span with a VSWR of 1.5:1 or better. Because of its bandwidth and very low intermodulation response, the JAG-850-8-EX is useful in a wide range of functions ranging from trunking, cellular, government, transit, telemetry/SCADA, and endless other applications.

The JAG-850-8-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 operation

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-850-8-EX ideal for leased or rented system use. Its bandwidth also makes it perfect to stock for re-use or re-sale.



Natural rubber plugs

Rev041010.0

Page 2/4

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

JAG-850-8-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)

Shippable



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

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



1/2 - wave spacing (8.9 – 9.2 dBd gain) (Bi-directional / Elliptical pattern)



Issue: 1



Dated: April-10-2010

JAG-850-8-EX Product Specification Sheet

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

Email: info@jagelectromagnetics.com Web: www.jagelectromagnetics.com Tel (647)-746-5937 Fax (905)-332-8093

Made in Canada

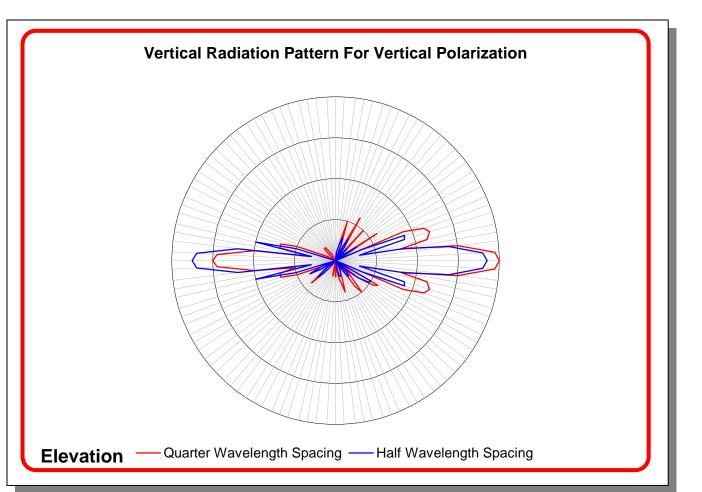
Specifications are subject to change without notice. As a result, all information contained in the present datasheet is subject to confirmation at time of ordering.



Delta0 Series EXPOSED FOLDED ^{800 MHz} DIPOLE 8-Bay Array 806-870 MHz



JAG-850-8-EX



* This is a general representation of the Delta0 Series JAG-850-8-EX antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

WARRANTY

Sheet

AG-850-8-EX Product Specification

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.

Dated: April-10-2010

Electromagnetics

Issue: 1

RF EMI Engineering Technology 26-1750 Creek Way Burlington, Ontario L7L 7E2 Canada Email: info@jagelectromagnetics.com Web: www.jagelectromagnetics.com Tel (647)-746-5937 Fax (905)-332-8093 Made in Canada

Copyright © JAG Electromagnetics

Rev041010.0 Page 3/4

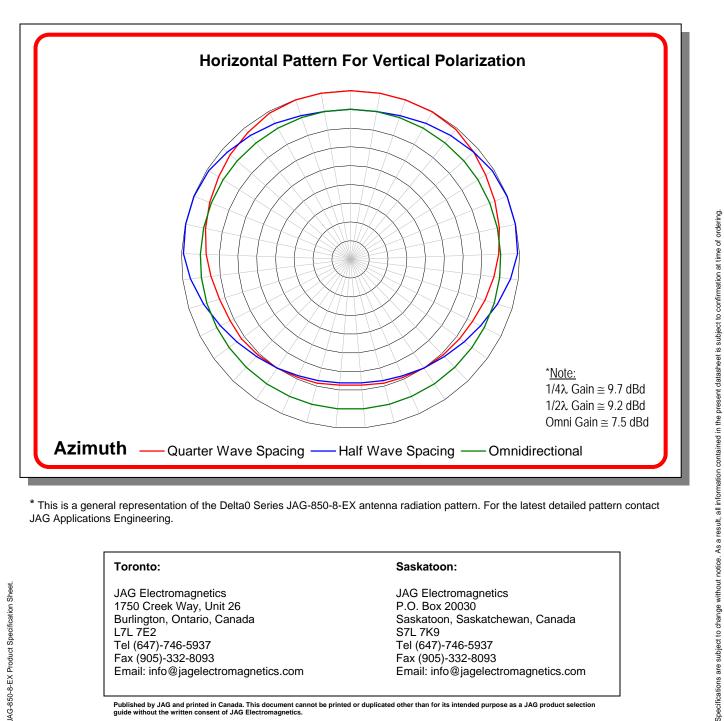
JAG's dedication to continuous Research & Development will result in product improvements as they evolve.



Delta0 Series EXPOSED FOLDED 900 MHz EXPOSED FOLDED[®] DIPOLE 8-Bay Array 806-870 MHz



JAG-850-8-EX



* This is a general representation of the Delta0 Series JAG-850-8-EX antenna radiation pattern. For the latest detailed pattern contact JAG Applications Engineering.

Toronto:

JAG Electromagnetics 1750 Creek Way, Unit 26 Burlington, Ontario, Canada L7L 7É2 Tel (647)-746-5937 Fax (905)-332-8093 Email: info@jagelectromagnetics.com

Saskatoon:

JAG Electromagnetics P.O. Box 20030 Saskatoon, Saskatchewan, Canada S7L 7K9 Tel (647)-746-5937 Fax (905)-332-8093 Email: info@jagelectromagnetics.com

Published by JAG and printed in Canada. This document cannot be printed or duplicated other than for its intended purpose as a JAG product selection guide without the written consent of JAG Electromagnetics.

Dated: April-10-2010

Electromagnetics

Issue: 1

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

Email: info@jagelectromagnetics.com Web: www.jagelectromagnetics.com Tel (647)-746-5937 Fax (905)-332-8093

Made in Canada

Copyright © JAG Electromagnetics

Rev033110.2 Page 4/4

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