





JAG-101-1-1/4-LP



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











	Electrical Specifica	Mechanical Specifications			Envi		
	Model JAG-101-1-1/4-L	_P	Model	JAG-101-1-1/4-	LP	Mode	
ation Sheet.	Frequency Range (MHz)	94 – 108	Height	inches (mm)	84 (2,134)	Survival With no	
	Bandwidth @ 1.5:1		Width	inches (mm)	34 (863.6)		
	VSWR or Better (MHz)	14	Depth	inches (mm)	4.25 (108)	Survival With Ice	
	Polarization	Vertical	Weight	lb (kg)	25 (11.33)	Maximu	
	Radiation Pattern	Offset	Support M			Radial Id	
	Nominal Gain (dBd)	1.9 – 2.25	Outside Diameter Inches (mm) 2.375 (60.3)		Equivale		
pecific	Nominal Horizontal 3dB Beamwidth (Deg)	205 – 215			2.375 (60.3)	Area	
duct S			Support N	last Clamping Space		Lateral t 0 Radial	
101-1-1/4-LP Product Specification Sheet.	Nominal Vertical 3dB Beamwidth (Deg)	66 – 70	Allowabic	Inches (mm)	34 (863.6)		
			Mounting Information No clamps supplied*			Torsiona0 Radia	
	Maximum Average Power (Watts)	300	*(See JAG clamps page for suitable clamps)				

S	Environmental						
	Model JAG-101-1-1/4-LP						
	Survival Wind Velocity With no Ice mph (km/h) 135 (217)						
	Survival Wind Velocity With Ice mph (km/h) 100 (161)						
	Maximum Allowable Radial Ice Buildup inches (mm) 0.5 (12.7)						
3)	Equivalent Flat Plate Area ft^2 (m^2) 2.1 (0.2)						
	Lateral thrust (100mph) 0 Radial Ice Buildup lbs (N) 77 (342.5)						
	Torsional moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 83 (112.1)						
	Bending moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 247 (333.5)						

Dated: February-21-2011

Lightning Protection

₩J\GElectromagnetics

Issue: 1

DC Ground

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

Pigtail (ft) & RF Connector

Made in Canada

JAG

Rev022111.0

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JAG's dedication to continuous Research & Development will result in product improvements as they evolve. 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 Broadcast Series EXPOSED FOLDED WHE DIPOLE 1-Bay Array 94-108 MHz



Electromagnetics "Quality is everything."

JAG-101-1-1/4-LP

Features

- 5-year factory warranty (See page 3)
- Broadband (14 MHz)
- Suitable for FM LP Broadcast Stations
- 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-101-1-1/4-LP is the fundamental building block of the finest LP Broadcast folded dipole arrays on the market today. Its unique high efficiency wide bandwidth design allows it to cover the entire 94-108 MHz frequency span with a VSWR of 1.5:1 or better. As a result of its bandwidth and very low intermodulation response, the JAG-101-1-1/4-LP is useful in a wide range of functions ranging from Low Power FM Broadcast Stations for colleges to FEMA in disaster relief applications.

The JAG-101-1-1/4-LP 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-101-1-1/4-LP, 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-101-1-1/4-LP 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

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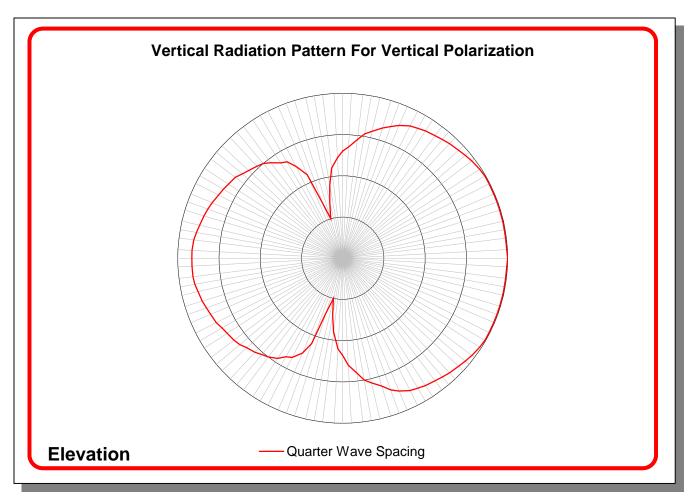
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Delta1 Broadcast Series EXPOSED FOLDED UHF DIPOLE 1-Bay Array 94-108 MHz



JAG-101-1-1/4-LP



^{*} This is a general representation of the Delta1 Series JAG-101-1-1/4-LP 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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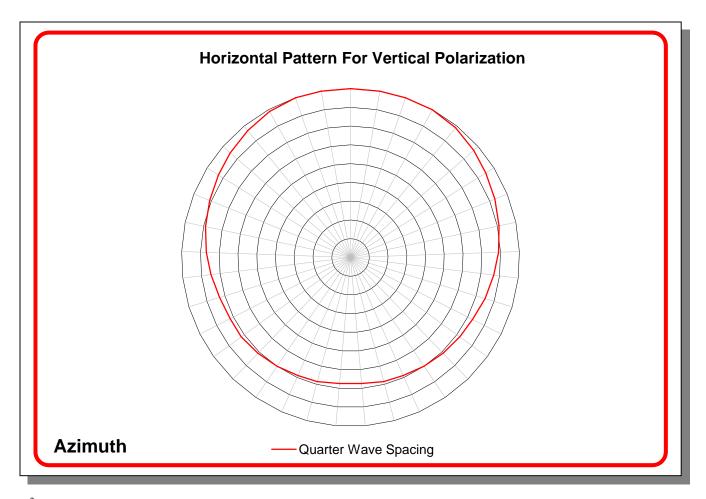
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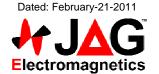
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JAG-101-1-1/4-LP Product Specification Sheet.

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