



Electromagnetics
"Quality is everything."

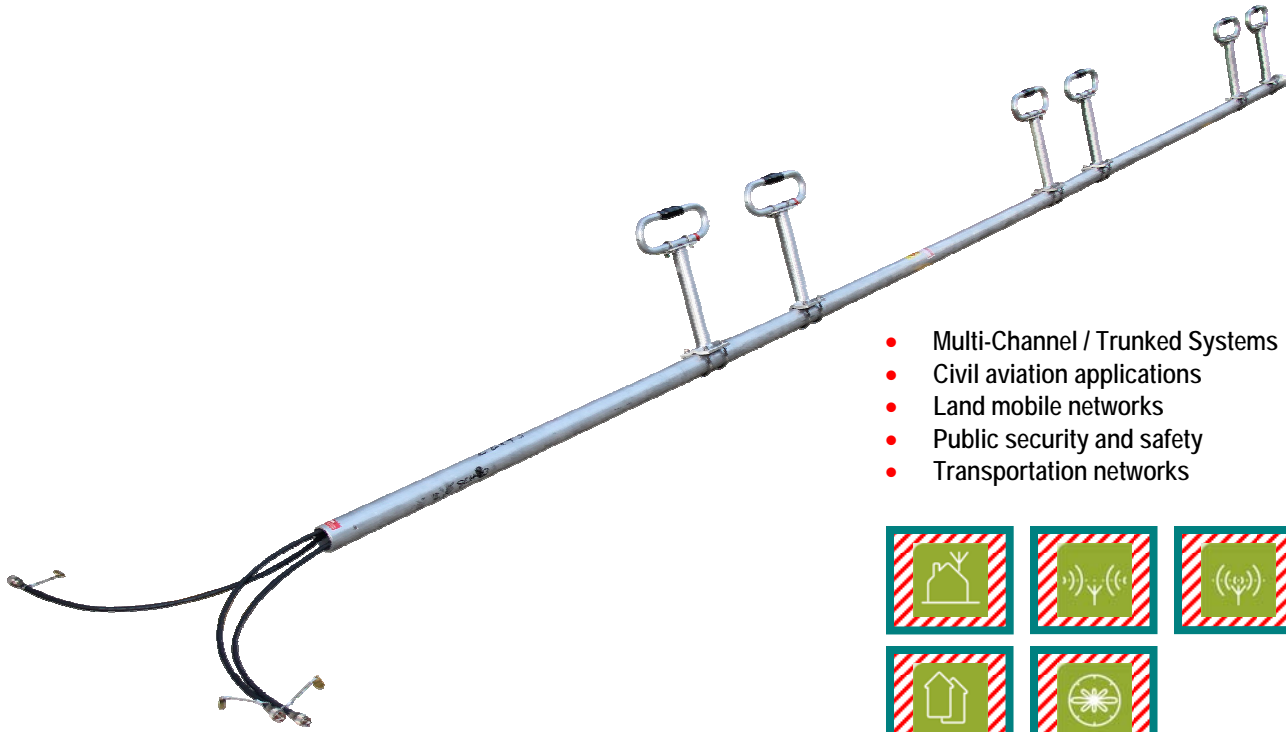
Delta1 Series

EXPOSED FOLDED

DIPOLE Triple 2-Bay Array

406-512 MHz

JAG-3X(450-2-1/2)-TOP



- Multi-Channel / Trunked Systems
- Civil aviation applications
- Land mobile networks
- Public security and safety
- Transportation networks



JAG-3X(450-2-1/2)-TOP Product Specification Sheet.

Electrical Specifications		Mechanical Specifications		Environmental	
Model	JAG-3X(450-2-1/2)-TOP	Model	JAG-3X(450-2-1/2)-TOP	Model	JAG-3X(450-2-1/2)-TOP
Frequency Range (MHz)	406 – 512* <small>*All 3 antennas</small>	Height	inches (mm) 264	Survival Wind Velocity With no Ice	mph (km/h) 110 (177)
Bandwidth @ 1.5:1 VSWR or Better (MHz)	106	Width	inches (mm) 20 (508)	Survival Wind Velocity With Ice	mph (km/h) 80 (128)
Polarization	Vertical* <small>*Each antenna</small>	Depth	inches (mm) 4.25 (108)	Maximum Allowable Radial Ice Buildup	inches (mm) 0.5 (12.7)
Radiation Pattern	Elliptical* <small>*Each antenna</small>	Weight	lb (kg) 110 (49.87)	Equivalent Flat Plate Area	ft ² (m ²) 3.54 (0.33)
Nominal Gain (dBd)	3 – 3.7* <small>*Each antenna</small>	Support Mast Outside Diameter Inches (mm)	2.375 (60.3)	Lateral thrust (100mph) 0 Radial Ice Buildup	lbs (N) 144 (640.5)
Nominal Horizontal 3dB Beamwidth (Deg)	205 – 215	Support Mast Allowable Clamping Space Inches (mm)	48 (1,219)* <small>*See JAG Delta1 Series application notes for details</small>	Torsional moment (100mph) 0 Radial Ice Buildup	ft-lbs (Nm) 43 (58.1)
Nominal Vertical 3dB Beamwidth (Deg)	33 – 35	Mounting Information	No clamps supplied* *(See JAG clamps page for suitable clamps)	Bending moment (100mph) 0 Radial Ice Buildup	ft-lbs (Nm) 632 (853.2)
Port-to-Port Isolation (dB)	>25* <small>*Between adjacent antennas</small>	Pigtail (ft) & RF Connector	2 – 3 & 'N' Male* <small>*Each antenna</small>		
Maximum Average Power (Watts)	200* <small>*Each antenna</small>				
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: October-10-2014

Issue: 1

Made in Canada

Rev101014.0

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Features

- 5-year factory warranty (See page 3)
- Broadband (106 MHz)
- Suitable for multi-frequency systems
- Medium gain applications
- Soldered internal joints
- DC Grounded
- Stainless steel hardware
- Expert TIG welding
- Natural rubber plugs
- Stock for re-use or re-sale
- Operation in harsh environments
- Optional lightning rod spike
- Optional downtilt versions
- Optional inverted mountable model
- Top of tower or structure mountable
- Optional coatings
- Ideal for monitoring stations

Description

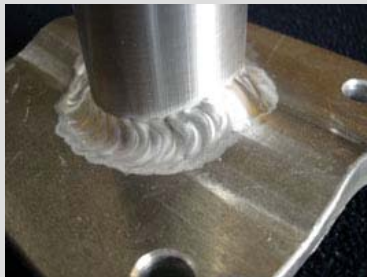
The JAG-3X(450-2-1/2)-TOP is a triple version of the JAG-450-2-1/2, incorporating all the features of the basic model into a 3-in-1 antenna needed in certain system applications. The JAG-3X(450-2-1/2)-TOP is designed for top mounting and is supplied with either quarter-wave (JAG-3X(450-2-1/4)-TOP) or half-wave (JAG-3X(450-2-1/2)-TOP) dipole-to-mast spacing. Mixed spacing also available. Site-specific mounting hardware is required with these antennas. Please consult JAG for suitable clamps.

The JAG-3X(450-2-1/2)-TOP features 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.

The JAG-3X(450-2-1/2)-TOP offers customers a solution to very closely spaced multi-channel systems where conventional combining techniques are not enough to provide adequate isolation. By incorporating 3 antennas into one, system operators and designers can take advantage of the JAG-3X(450-2-1/2)-TOP by allocating appropriately spaced channels to each antenna.

The JAG-3X(450-2-1/2)-TOP, with its rugged construction 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-3X(450-2-1/2)-TOP at a glance



Expert TIG welding



Natural rubber plugs



Heavy-duty dipole fixture



Optional lightning rod

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

JAG-3X(450-2-1/2)-TOP Product Specification Sheet.

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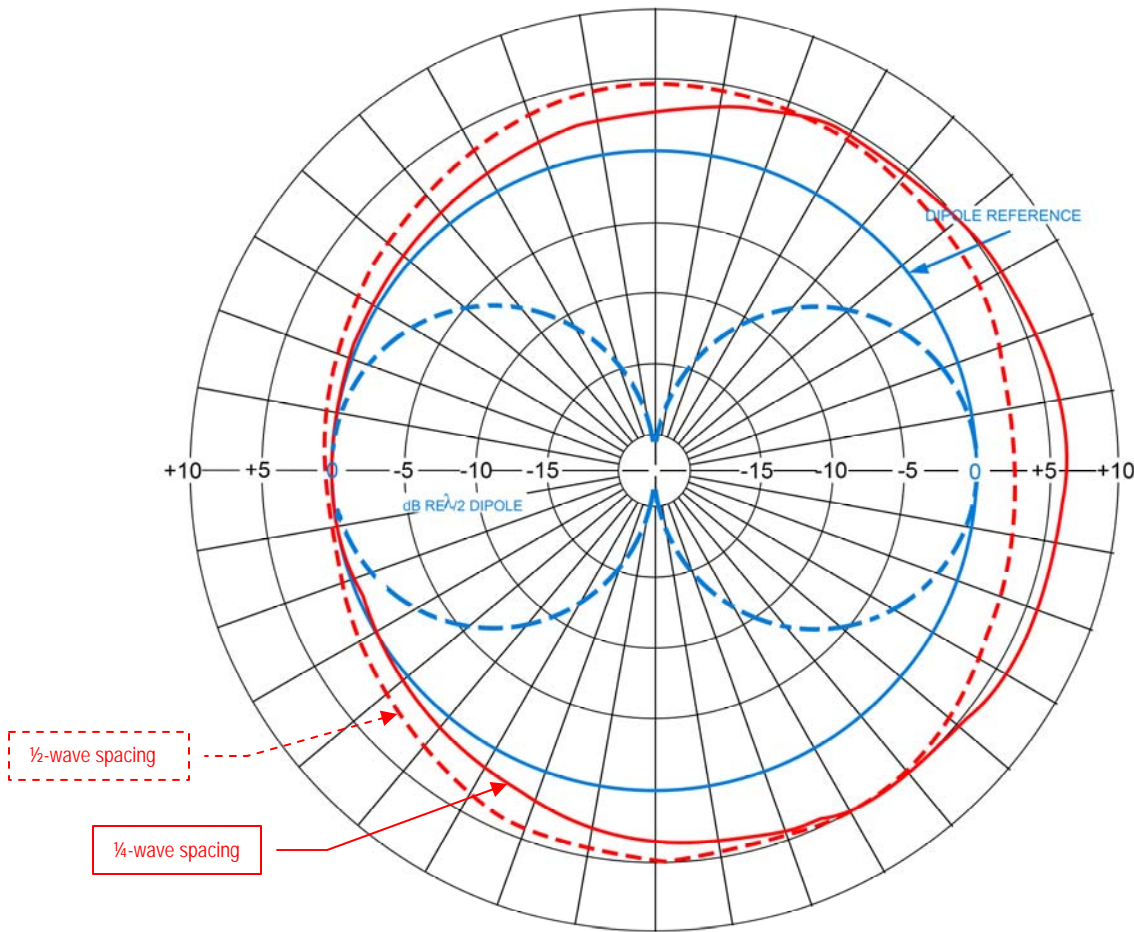
406-512 MHz



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* This is a general representation of the Delta1 Series JAG-3X(450-2-1/2)-TOP radiation pattern for each antenna.

JAG-3X(450-2-1/2)-TOP Product Specification Sheet.

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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