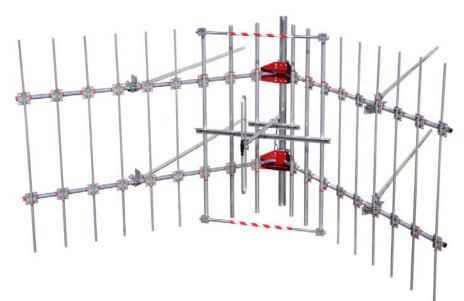






JAG-CR-161-72x84



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











Electrical Specifications		Mechanical Specifications				Environmental		
Model JAG-CR-161-72x84		Model JAG-CR-161-72x84			Model JAG-CR-161-72x84			
Frequency Range (MHz)	148 – 174	Height	inches (mm	1)	72 (1,829)	Survival Wind Velocity With no Ice	mph (km/h)	100 (161)
Bandwidth @ 1.5:1 VSWR or Better (MHz)	26	Width inches (mm		1)	120 (3,048)		mpii (kiii/ii)	100 (101)
		Depth	inches (mm	1)	60 (1,524)	Survival Wind Velocity With Ice	mph (km/h)	85 (137)
Polarization	Vertical	Weight	lb (kg)	,	110 (49.9)	Maximum Allowable		, ,
Radiation Pattern	Directional				110 (49.9)	Radial Ice Buildup	inches (mn	n) 0.5 (12.7)
Nominal Gain (dBd)	8.8 – 9.2	Recommended Support Mast: Aluminum Galvaniz			ed Steel	Equivalent Flat Plate Area no ice	ft^2 (m^2)	13.77 (1.27)
Nominal Horizontal 3dB Beamwidth (Deg) 48 – 52	2.875" (60r	nm)	≥2.375" (60			1 2 (III 2)	10.77 (1.27)
Nominal Vertical 3dB Beamwidth (Deg)	64 – 68	SCH80 Min 7'		SCH80 Min 7'		Equivalent Flat Plate Area with ice	ft^2 (m^2)	23.91 (2.21)
Typical Front to Back Ratio (dB)	30	Mounting In	nformation	Clamps are	supplied*	Lateral thrust (100mph) 0 Radial Ice Buildup	lbs (N)	598 (2,660)
Maximum Average Power (Watts) 200			*Clamps will fit 2.38"-2.88" diameter support mast			1 () () /		
Lightning Protection	Pigtail (ft) & RF Connector 2 – 3 & 'N' Male*			Torsional moment (100mph) 0 Radial Ice Buildup ft-lbs (Nm) 1,242 (1,683)				

Dated: October-15-2014

JAG-CR-161-72x84 Product Specification Sheet.



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

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

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CR1 Series

148-174 MHz

JAG-CR-161-72x84

Features

- 5-year factory warranty (See page 3)
- Broadband (26 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
- Top of tower or structure mountable
- Optional coatings
- Directional/sectored coverage

Description

The JAG-CR-161-72x84 is a broadband high gain corner reflector for use in the 148-174 MHz frequency range. Its folded dipole feed allows operation in severe environmental conditions. Even with 0.5-inches of radial ice, the JAG-CR-161-72x84 will not exceed a VSWR of 2.0:1. Mounting hardware is included with these antennas. Higher power and heavy-duty models are available upon request.

The JAG-CR-161-72x84 features 6061-T6 aluminum and stainless steel construction. Features such as natural rubber plugs make sure the internal feed-line remains well protected from the elements ensuring trouble free operation.

The JAG-CR-161-72x84 offers customers a solution to situations that require broadband medium directionality similar to the coverage approach taken by most cellular systems. Due to the JAG-CR-161-72x84's inherently high front to back ratio, system operators can be assured that the desired signal will illuminate the planned sector coverage with maximum intensity.

The JAG-CR-161-72x84, 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-CR-161-72x84 at a glance



Easy to assemble



Natural rubber plugs



Heavy-duty dipole fixture

Dated: October-15-2014

JAG-CR-161-72x84 Product Specification Sheet.



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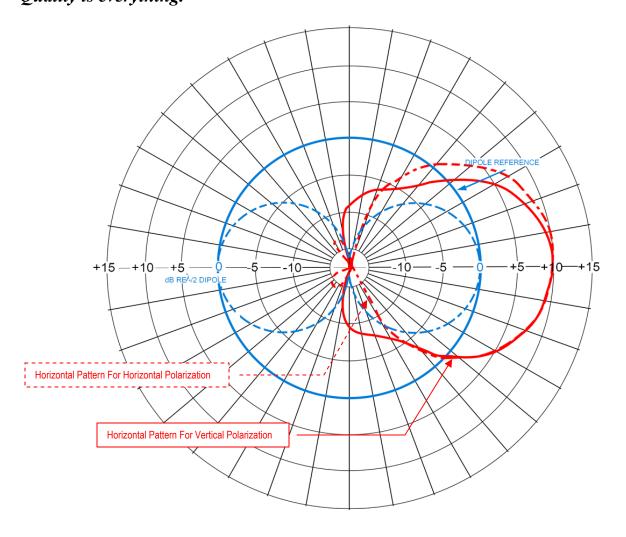
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CR1 Series EXPOSED FOLDED DIPOLE Corner Reflector 148-174 MHz

JAG-CR-161-72x84



^{*} This is a general representation of the CR1 Series JAG-CR-161-72x84 radiation pattern for each antenna.

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.

Dated: October-15-2014



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