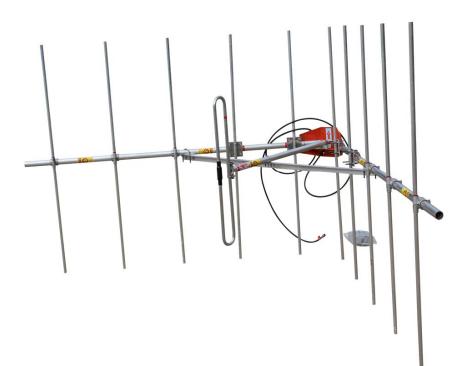






JAG-CR-161-48x60



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











| | | | | • | Land mobile networ Public security and Transportation netw | safety |
|--|-------------|--|---|---|--|-------------------------|
| Electrical Specifications | | Mechanical Specifications | | | Environmental | |
| Model JAG-CR-161-48x60 | | Model JAG-CR-161-48x60 | | | Model JAG-CR-161-48x60 | |
| 31() | 148 – 174 | Height in | nches (mm) | 48 (1,219) | Survival Wind Velocity With no Ice | mph (km/h) 100 (161) |
| Bandwidth @ 1.5:1 VSWR or Better (MHz) 2 | 26 | | nches (mm) | 84 (2,134) | Survival Wind Velocity | ut all line |
| Polarization \ | Vertical | Depth in | nches (mm) | 43 (1,092) | With Ice | mph (km/h) 85 (137) |
| Radiation Pattern [| Directional | - | o (kg) | 45 (19.3) | Maximum Allowable Radial Ice Buildup | inches (mm) 0.5 (12.7) |
| Nominal Gain (dBd) | 6.5 – 6.7 | Recommended Support M Aluminum G | | ast: alvanized Steel | Equivalent Flat Plate Area no ice | ft^2 (m^2) 5.3 (0.49) |
| Nominal Horizontal 3dB Beamwidth (Deg) 65 – 69 | | ≥2.375" (60mm) ≥2.375" (60mm) | | Equivalent Flat Plate | - (-) 5.5 (6.15) | |
| Nominal Vertical 3dB Beamwidth (Deg) 7 | 73 – 77 | SCH80 Min 5' | Min | | Area with ice | ft^2 (m^2) 9.2 (0.85) |
| Typical Front to Back Ratio (dB) | 30 | Mounting Information Clamps are supplied* | | Lateral thrust (100mph) 0 Radial Ice Buildup | lbs (N) 202 (898.5) | |
| Maximum Average Power (Watts) 200 | | *Clamps will fit 2.38"-2.88" diameter support mast | | | Torsional moment (100mph) | |
| Lightning Protection [| DC Ground | Pigtail (ft) & R | Pigtail (ft) & RF Connector 2 – 3 & 'N' Male* | | 0 Radial Ice Buildup | ft-lbs (Nm) 303 (409.5) |

Dated: October-15-2014

JAG-CR-161-48x60 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

Made in Canada



Copyright © JAG Electromagnetics

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

Rev101015.0

Page 1/3

CR1 Series

148-174 MHz

JAG-CR-161-48x60

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-161-48x60 is a broadband medium 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-161-48x60 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-161-48x60 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-161-48x60 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-161-48x60'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-161-48x60, 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-161-48x60 at a glance



Easy to assemble



Natural rubber plugs



Heavy-duty dipole fixture

Dated: October-15-2014

JAG-CR-161-48x60 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

Made in Canada



Copyright © JAG Electromagnetics

Rev101514.0

Page 2/3

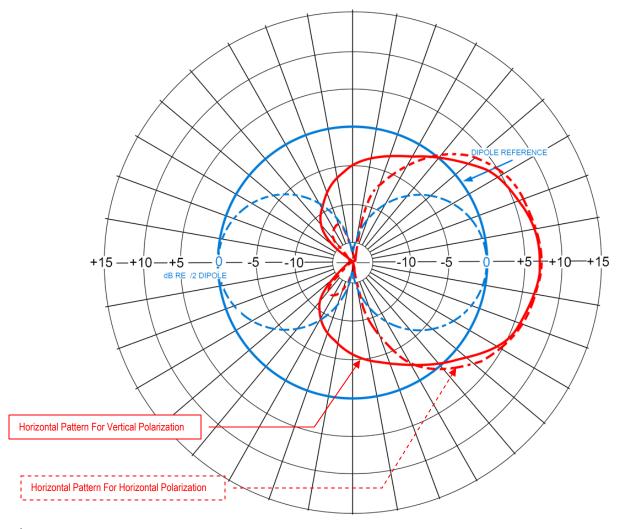
JAG's dedication to continuous Research & Development will result in product improvements as they

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.



Electromagnetics
"Quality is everything."

JAG-CR-161-48x60



^{*} This is a general representation of the CR1 Series JAG-CR-161-48x60 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



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 Made in Canada

*

Copyright © JAG Electromagnetics

Rev101015.0

Page 3/3

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