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**11 Laurier St. / 11, rue Laurier**

**Place du Portage, Phase III**

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**Gatineau, Québec K1A 0S5**

**Bid Fax: (819) 997-9776**

**SOLICITATION AMENDMENT  
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Electrical & Electronics Products Division  
11 Laurier St./11, rue Laurier  
7B3, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

<b>Title - Sujet</b> Multiband Antennas	
<b>Solicitation No. - N° de l'invitation</b> W6399-180400/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> 6100000251	<b>Date</b> 2017-08-31
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-458-73247	
<b>File No. - N° de dossier</b> hn458.W6399-180400	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-09-14</b>	<b>Time Zone</b> Fuseau horaire Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Lee, Carlos	<b>Buyer Id - Id de l'acheteur</b> hn458
<b>Telephone No. - N° de téléphone</b> (819) 420-0336 ( )	<b>FAX No. - N° de FAX</b> (819) 953-4944
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Amendment 002 is raised to include additional drawings/specifications as attached:

All other terms and conditions remain unchanged.

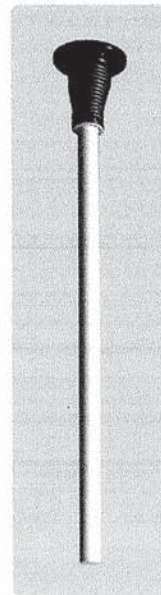
The GD2013 VHF/UHF Whip Antenna is a high performance, broadband whip antenna designed for use over the 30 MHz to 512 MHz frequency band.

This monopole antenna is designed for installation on military vehicles.

Decoupling techniques are incorporated to maintain optimum interaction and preserve high performance throughout all operating bands.

A frequency independent matching network is fitted to ensure acceptable low band Voltage Standing Wave Ratio (VSWR) with minimum loss of gain.

The antenna comprises a spring loaded GRP tube secured to a round aluminium base. The tube is detachable from the base via a quick release mechanism. The tube is further sealed to prevent the ingress of moisture.



## Electrical Specification

The electrical performance given below is valid from -40 °C to +71 °C.

Note: Gain figures for the antenna apply when mounted upon a 10 m diameter normal conductive flat groundplane.

Frequency Ranges	Gain (dBi)	Frequency (MHz)
30 MHz - 88 MHz	-12	30
118 MHz - 174 MHz	-10	50
225 MHz - 512 MHz	-8	88

Gain	Frequency (MHz)
-12	30
-10	50
-8	88
-2	118 - 174
0	225 - 512
average	(See gain plot overleaf)

Power Rating	Frequency (MHz)
GD2013-1 Series	50 W CW maximum (< 88 MHz)
GD2013-2 Series	100 W CW maximum (< 88 MHz)
	200 W CW maximum (> 88 MHz)

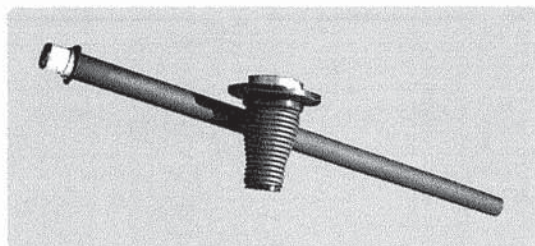
VSWR	Frequency (MHz)
≤ 2.5:1	30 - 88
≤ 2.5:1	118 - 174
≤ 2.5:1	225 - 512
Radiation Pattern	Essentially omnidirectional in azimuth
Polarisation	Predominantly vertical when mounted vertically
RF Connector	Available types: TNC Female, N Female, BNC Female

## Mechanical Specification

Length	38 in (980 mm)
Width	5.8 in (147 mm)
Weight	7 lb (3.17 kg)
Lateral Stiffness	Adequate to return whipping element to vertical from horizontal
Mounting	4 or 6 holes fixed location
Configuration	

## Environmental Specification

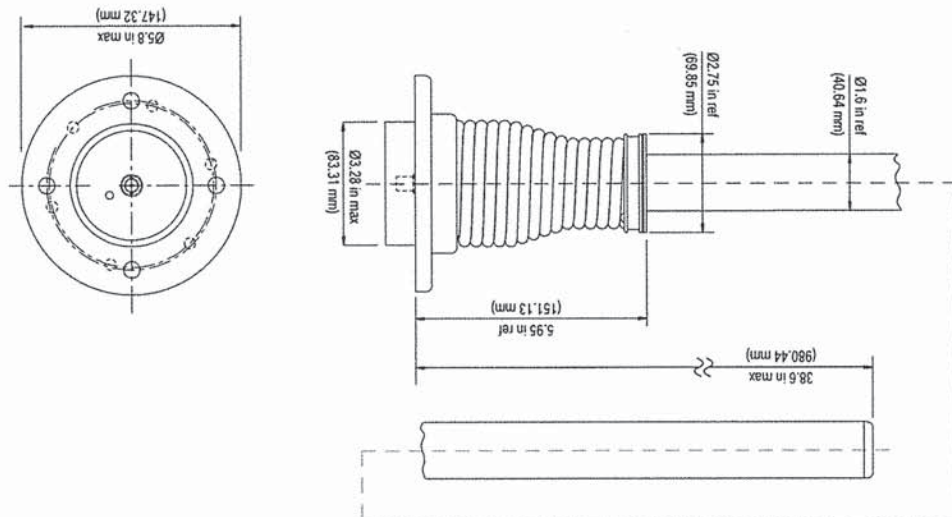
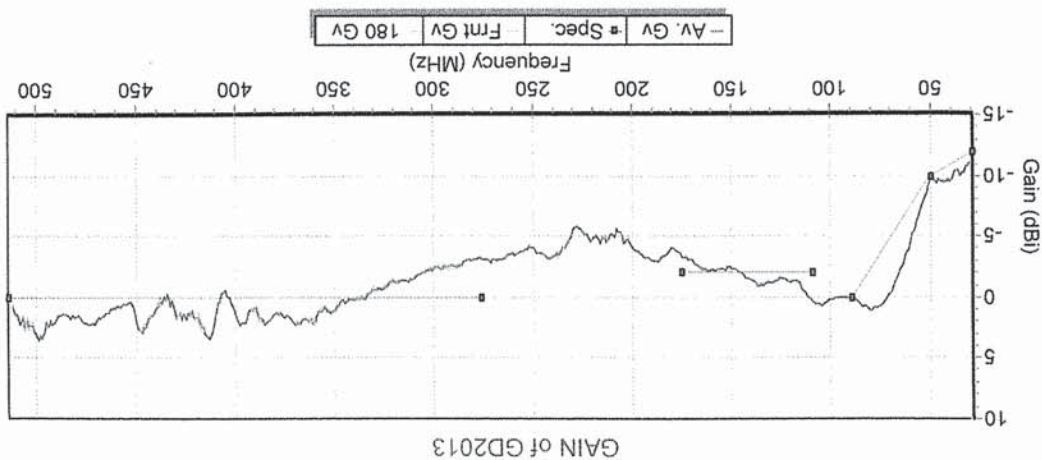
High Temperature	MLL-STD-810F Method 501.4 Procedure I (Continuous) Storage: +85 °C Procedure II: +71 °C
Low Temperature	MLL-STD-810F Method 502.4 Procedure I: -55 °C Procedure II: -10 °C
Rain (blowing)	MLL-STD-810F Method 509.4 Procedure I
Humidity	MLL-STD-810F Method 507.4
Dust and Sand	MLL-STD-810F Method 510.4, Procedure I & II
Vibration	MLL-STD-810F Method 514.5 Category A, Procedure I Two wheeled trailer test duration 60 minutes (60 miles) per axis Survival - greater than 25 impacts at the mid-point of the whip at a speed of 10 kph using Oak Beam Test
Impact	



# Type GD2013

VHF/UHF Whip Antenna

**COBHAM**



For further information please contact:

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Buckinghamshire, SL7 1TF England  
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