

Exhibit 6B Revision A – Test Report

General Dynamics C4 Systems
VHF CM-350 Digital Transmitter (VDT)

FCC ID: MIJCM350V

Model No. CM-350

Equipment Applicant: **General Dynamics C4 Systems**
 8220 E. Roosevelt St.
 Scottsdale, Arizona 85257

Tests Conducted By: **General Dynamics C4 Systems**
 8220 E. Roosevelt St.
 Scottsdale, Arizona 85257

Test Summary: **Complies with the Frequency Stability Requirements of**
 47 CFR 2.1055

Table 6B – 1 Frequency Stability @ 120 VAC (nominal)

Operating Voltage		120 VRMS	60 Hz		
Unit Temp.		20.8c			
Time		7:45	7:47	7:50	7:55
Delta time (min.)		0	2	5	10
Freq. (MHz)	127.5	127.499887	127.499897	127.499911	127.499922
Freq. offset (Hz)		-113	-103	-89	-78
PPM		0.88627451	0.80784314	0.69803922	0.61176471
Unit Temp.		21.2c			
Time		7:56	7:58	8:01	8:06
Delta time (min.)		0	2	5	10
Freq. (MHz)	118	117.999932	117.999935	117.999937	117.999945
Freq. offset (Hz)		-68	-65	-63	-55
PPM		0.57627119	0.55084746	0.53389831	0.46610169
Unit Temp.		21.6			
Time		8:06	8:08	8:11	8:16
Delta time (min.)		0	2	5	10
Freq. (MHz)	136	135.999937	135.999939	135.999941	135.999944
Freq. offset (Hz)		-63	-61	-59	-56
PPM		0.46323529	0.44852941	0.43382353	0.41176471

Table 6B-2 Frequency Stability @ 102 VAC (85%)

Operating Voltage		102 VRMS	60 Hz		
Unit Temp.		22.2c			
Time		8:54	8:56	8:59	9:04
Delta time (min.)		0	2	5	10
Freq. (MHz)	127.5	127.499937	127.49994	127.49994	127.499947
Freq. offset (Hz)		-63	-60	-60	-53
PPM		0.49411765	0.47058824	0.47058824	0.41568627
Unit Temp.		22.2c			
Time		9:04	9:06	9:09	9:14
Delta time (min.)		0	2	5	10
Freq. (MHz)	118	117.999954	117.999953	117.999955	117.999956
Freq. offset (Hz)		-46	-47	-45	-44
PPM		0.38983051	0.39830508	0.38135593	0.37288136
Unit Temp.		21.7c			
Time		8:41	8:43	8:46	8:51
Delta time (min.)		0	2	5	10
Freq. (MHz)	136	135.999891	135.999899	135.99991	135.999927
Freq. offset (Hz)		-109	-101	-90	-73
PPM		0.80147059	0.74264706	0.66176471	0.53676471

Table 6B-3 Frequency Stability @ 138 VAC (115%)

Operating Voltage		138 VRMS	60 Hz		
Unit Temp.		22.0c			
Time		10:07	10:09	10:12	10:17
Delta time (min.)		0	2	5	10
Freq. (MHz)	127.5	127.499949	127.49995	127.499951	127.499955
Freq. offset (Hz)		-51	-50	-49	-45
PPM		0.4	0.39215686	0.38431373	0.35294118
Unit Temp.		21.5c			
Time		9:47	9:49	9:52	9:57
Delta time (min.)		0	2	5	10
Freq. (MHz)	118	117.999904	117.999913	117.999922	117.999938
Freq. offset (Hz)		-96	-87	-78	-62
PPM		0.81355932	0.73728814	0.66101695	0.52542373
Unit Temp.		21.6c			
Time		9:57	9:59	10:02	10:07
Delta time (min.)		0	2	5	10
Freq. (MHz)	136	135.99993	135.999933	135.999937	135.999944
Freq. offset (Hz)		-70	-67	-63	-56
PPM		0.51470588	0.49264706	0.46323529	0.41176471

Table 6B-4 Frequency Stability of Reference Oscillator vs Temperature

fordahl

FREQUENCY CONTROL PRODUCTS

Erfenstrasse 31, 2503 Bienne, Switzerland - Phone +41 32 366 50 50 - Fax +41 32 366 50 59 - E-mail fordahl@fordahl.com~~25000086~~
n° 2500 0108

BT	SPO - OSCILLATOR SPECIFICATION	TCXO	AS7046A	Rev. 01	Date: 31.07.2003	Visa: NE
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Oscillator type : DFA S7-KOV 9.6 M AS7046
 Customer : Telerad (F)
 Customer part number : TBA
 Frequencies : 9.600 MHz
 Crystal frequencies : 9.600 MHz
 Package size : SMD, 20 x 13.1 x 7.9 mm, epoxy with metal can
 4 pads

MARKING :

DFA S7-KOV 9.600 MHz AS7046	YR.WK
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Marking of the 25°C offset in ppm with a hand written label. This is not a washable marking!
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ELECTRICAL SPECIFICATIONS

Supply voltage : 5.0 V \pm 5 %
 Supply current (no load) : \leq 6 mA
 Output type and load : Clipped Sine 10 k Ω /10 pF
 Output amplitude : \geq 1 V p-p
 Start up : \leq 10 ms @ 4.75 V
 SSB Phase noise (1 Hz B.W.) : -130 dBc/Hz @ 1 kHz
 -142 dBc/Hz @ 10 kHz

FREQUENCY STABILITIES

Temperature range : -30 to 75° C
 Calibration @ 25°C : By external control voltage
 Stability versus temperature : $\leq \pm$ 1.0 ppm
 Stability versus Vcc \pm 5 % : $\leq \pm$ 0.1 ppm
 Stability versus Load \pm 10 % : $\leq \pm$ 0.1 ppm
 Ageing 1st year : $\leq \pm$ 1.0 ppm
 Long term ageing : $\leq \pm$ 4 ppm over 10 years

EXTERNAL OR INTERNAL FREQUENCY CONTROL

Type of frequency control : external voltage control
 Frequency control range : 0.5 V to 3.7 V center : 2.1 V
 Pulling range : $\geq \pm$ 5.0 ppm ; $\leq \pm$ 10 ppm
 Function : positive
 Linearity or slope : $\leq \pm$ 20 %
 Frequency control input impedance : \geq 10 k Ω

ENVIRONMENTAL SPECIFICATIONS

Storage temperature : -40 to 85° C
 Shocks (6 directions) : 100g, 6 ms, 1/2 sine
 Vibrations (3 axes) : 20 - 2000 Hz, 20g

REMARKS**HISTORY OF REVISIONS**

Rev. 01	25°c offset marking added
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