



CERTIFICATE OF VOLATILITY

Date: 18 September 2006

Model Description: Primary Frequency Standard

Model Numbers: 5071A

This Certificate of Volatility covers the following Model 5071A options:

<u>P/N</u>	<u>Option Description</u>	<u>Memory</u>
5071A-C002	Basic Primary Frequency Standard	Yes
5071A-C001	Basic with High Performance Cesium Tube	Yes

This document describes volatile and non-volatile storage media of the above noted Models.

Note: The below storage components are on the 05071-68003 (A3) Assembly

<u>Memory Size</u>	<u>Memory Type</u>	<u>Volatile/Non-Volatile</u>	<u>User Data</u>	<u>Location</u>
256Kbit (2)	SRAM Sym P/N 1818-4218 CYPRESS CY62256LL-70SNC (256Kbit (32K x 8) Static RAM)	Volatile	Yes	U14, U15
	Function: User configuration settings. Firmware controlled. Clearing: Turn off unit. This component is soldered.			
1Mbit (2)	EPROM Sym P/N 1818-4060 STMicroelectronics M27C1001-10F1 (1Mbit (128K x 8) UV EPROM)	Non-Volatile	No	U32, U33
	Function: Programming code for Processor. Clearing: No erase function. These components are socketed.			
64Kbit	EEPROM Sym P/N 1818-4359 ATMEL AT28C64B-25JC (64Kbit (8K x 8) EEPROM)	Non-Volatile	No	U13
	Function: Programming code for Processor. Clearing: No erase function. This component is soldered.			
N/A	Main Processor Sym P/N 1820-5845 Freescale MC68HC000FN10 (32-bit, 10MHz microprocessor)	Non-Volatile	No	U3
	Function: Main Processor. Clearing: No erase function. This component is soldered.			



Note: The below storage components are on the 05071-68004 (A4) Assembly

<u>Memory Size</u>	<u>Memory Type</u>	<u>Volatile/Non-Volatile</u>	<u>User Data</u>	<u>Location</u>
256Kbit	EPROM Sym P/N 1818-4284 STMicroelectronics M27C256B-10C6 (256Kbit (32K x 16) OTP EPROM)	Non-Volatile	No	U20
	Function: Firmware functions. Cannot be reprogrammed. Clearing: No erase function. This component is soldered.			

Note: The below storage components are on the 10819-60230 or 10819-60231 cable Assembly of CBT

<u>Memory Size</u>	<u>Memory Type</u>	<u>Volatile/Non-Volatile</u>	<u>User Data</u>	<u>Location</u>
16Kbit	EEPROM Sym P/N 1818-4382 Microchip Technology 24LC16B (16Kbit (256 x 8) EEPROM)	Non-Volatile	No	U1
	Function: Cesium beam tube parameters. Clearing: No erase function. This component is soldered.			

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Authorized Signature,	Title,	Date