APOLLO G&N Specification
PS 2003972 Rev B
Original Issue Date: 2-16-67
Release Authority: TDRR 32994
Class A Release

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

FIXED MEMORY MODULE B1 -B6 ASSEMBLY

DRAWING NO. 2003972

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
4/13/67	A	33609	1, 8, 16	DMS FA	DMS FA
12-21-67	B	35260	1, 7	EB FA	EB FA

This specification consists of pages 1 to 21 inclusive.

APPROVALS	NASA/MSC	EC Hall 11/8/66 W. Lameris 8 Dec 66 MIT/IL	W. J. Flaherty 11-7-66 D.W. Anderson 11/7/66 BC Dutton 11/66 RAY

1. SCOPE

1.1 This specification establishes the detail requirements for complete identification and acceptance of the Fixed Memory Module Assembly, Part Number 2003972 (all dash numbers).

2. APPLICABLE DOCUMENTS

2.1 The following documents form a part of this specification to the extent specified herein.

2.1.2 Effective Issues

2.1.3 Unless otherwise specified herein, Military and Government Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND 1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment.

DRAWINGS

APOLLO G&N

2003972	Fixed Memory Module Assembly

(Copies of Specifications, Standards, Drawings, Bulletins and Publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the Contracting Officer).

3.1.9 Sense Outputs. With the input and timing waveforms as specified in paragraph 4.2.9, the sense outputs shall be as follows:

3.1.9.1 The output on sense lines, parity through sign shall be as shown in Figure 3, and defined as follows:

V_p NMT 175 mv

V_1 NLT 45 mv

3.1.9.2 Zero Noise (V_0 max) measured between 1.1 $^{+0}_{-0.05}$ usec and 2.3 $^{+0.05}_{-0}$ usec after the start of Logic Reset (FR) shall be NMT 25 mv.

3.1.9.3 An all zero output shall occur when Logic STAGAT is zero.

V_0 max = NMT 5 mv, 1.1 to 2.3 usec after RSET.

3.1.9.4 An all zero output shall occur when Module Select current is removed.

V_0 max = NMT 5 mv, 1.1 to 2.3 usec after RESET (FR).

3.1.10 Temperature Extremes.

3.1.10.1 The module shall operate as specified in paragraphs 3.1.8 and 3.1.9 at an ambient temperature of -10°C $^{+0C^{\circ}}_{-2.8C^{\circ}}$.

3.1.10.2 The module shall operate as specified in paragraphs 3.1.8 and 3.1.9 at an ambient temperature of 70°C $^{+2.8C^{\circ}}_{-0C^{\circ}}$.

3.1.11 Vibration. The module shall exhibit no intermittent opens or shorts on Drive and Sense lines in excess of 1 microsecond while being subjected to the random vibration specified below:

Random vibration shall be Gaussian distributed with the exception that magnitude limiting shall occur at a peak to rms "g" ratio of 3 to 1.

Vibration in each of three mutually perpendicular axis shall be for not less than 2 minutes and not more than 6 minutes as follows: 3db/octave rollup 10 HZ to $0.12g^2$/HZ at 70 HZ, $0.12g^2$/HZ to 420 HZ, 3db/octave rolloff from 420 HZ to 2000 HZ.

Zero N