

APOLLO G&N Specification
 PS 2016017 Rev A
 Original Issue Date: 18 MAY 1967
 Release Authority: TDRR 33806
 Class A Release

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENT

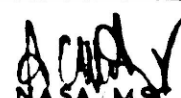
FIXED MEMORY SENSE AMPLIFIER MODULE B14

DRAWING NO. 2003981

Record of Revisions

M	Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
					MIT	NASA
(M)	1/1/67	1	B: 13	1,3,4,5	EMM	EMM

This specification consists of pages 1 to 5 inclusive.

APPROVALS	 NASA/MS	E. C. Hall 3/3/67 4/7/67	W. Starnes 4/7/67	ICCB 5/18/67	B. W. Skelton 11-20-67 RAY
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ADDENDUM NOTICE

This Specification has been prepared as an Addendum to:
Specification No. PS 2003981
Revision F

FOR

FIXED MEMORY SENSE AMPLIFIER MODULE B14

Used With

APOLLO G&N System

The exact content of specification PS 2003981 used as the basic document for this addendum is the revision referenced above, and the exceptions stated below.

1. SCOPE

This specification establishes the detail requirements for complete identification and acceptance of the Fixed Memory Sense Amplifier Module Part Number 2003981-031.

2. APPLICABLE DOCUMENTS: Same as PS 2003981

3. REQUIREMENTS: Same as PS 2003981 except as stated below.

3.1.6 Delay Time

3.1.6.1 Strobe Driver Output (STROBE, STROBF). The Strobe Driver output shall be as shown in Figure 2, and shall have the following characteristics when an input as specified in section 4.1.5.2 is applied.

Amplitude (high)	NMT 1.0V below B+
Amplitude (low)	4.4 ± 0.4V below B+
Rise Time (t_r)	NMT 60 nanosec
T_2	70 ± 20 nanosec
T OFF	NMT 0.375 μsec

3.1.7 Marginal Voltages and Temperature Extremes.

3.1.7.1 With the input voltage adjusted to 12.2 ± 0.1 VDC, and an ambient temperature of -10°C +0°C, the module shall operate -2.8°C

as specified in sections 3.1.5 and 3.1.6, except threshold voltage shall be 35 ± 7 mv, and PNP output amplitudes may decrease by 20%.

-4

The only times measured shall be:

T_2	70 +40 -20 ns
T_4	140 +80 -40 ns
T_7	180 +140 -60 ns
T_5, T_6	NMT 125 ns
T_8	NMT 1.125 μs
T OFF	NMT 0.45 μs

3.1.7.2 With the input voltage adjusted to 16.5 ± 0.1 VDC, and an ambient temperature of -10°C to $+0^{\circ}\text{C}$, the module shall operate as specified in sections 3.1.5 and 3.1.6, except threshold voltage shall be 35 ± 7 mv, PNP output amplitudes may increase by 20%, and the gain resolution of Paragraph 3.1.5.3 shall be NMT 4.2 mv. The only times measured shall be:

T_2	70 ± 40 -20 ns
T_4	140 ± 80 -40 ns
T_7	180 ± 140 -60 ns
T_5, T_6	NMT 125 ns
T_8	NMT 1.125 μs
T OFF	NMT 0.45 μs

3.1.7.3 With the input voltage adjusted to 16.5 ± 0.1 VDC, and an ambient temperature of 70°C to $+2.8^{\circ}\text{C}$, the module shall operate as specified in sections 3.1.5 and 3.1.6, except threshold voltage shall be 35 ± 4 mv, PNP output amplitudes may increase by 20%, and the gain resolution of Paragraph 3.1.5.3 shall NMT 4.2 mv. The only times measured shall be:

T_2	70 ± 40 -20 ns
T_4	140 ± 80 -60 ns
T_7	180 ± 140 -60 ns
T_5, T_6	NMT 125 ns
T_8	NMT 1.125 μs
T OFF	NMT 0.45 μs

4. QUALITY ASSURANCE PROVISIONS: Same as PS 2003981
5. PREPARATION FOR DELIVERY: Same as PS 2003981
6. NOTES: None

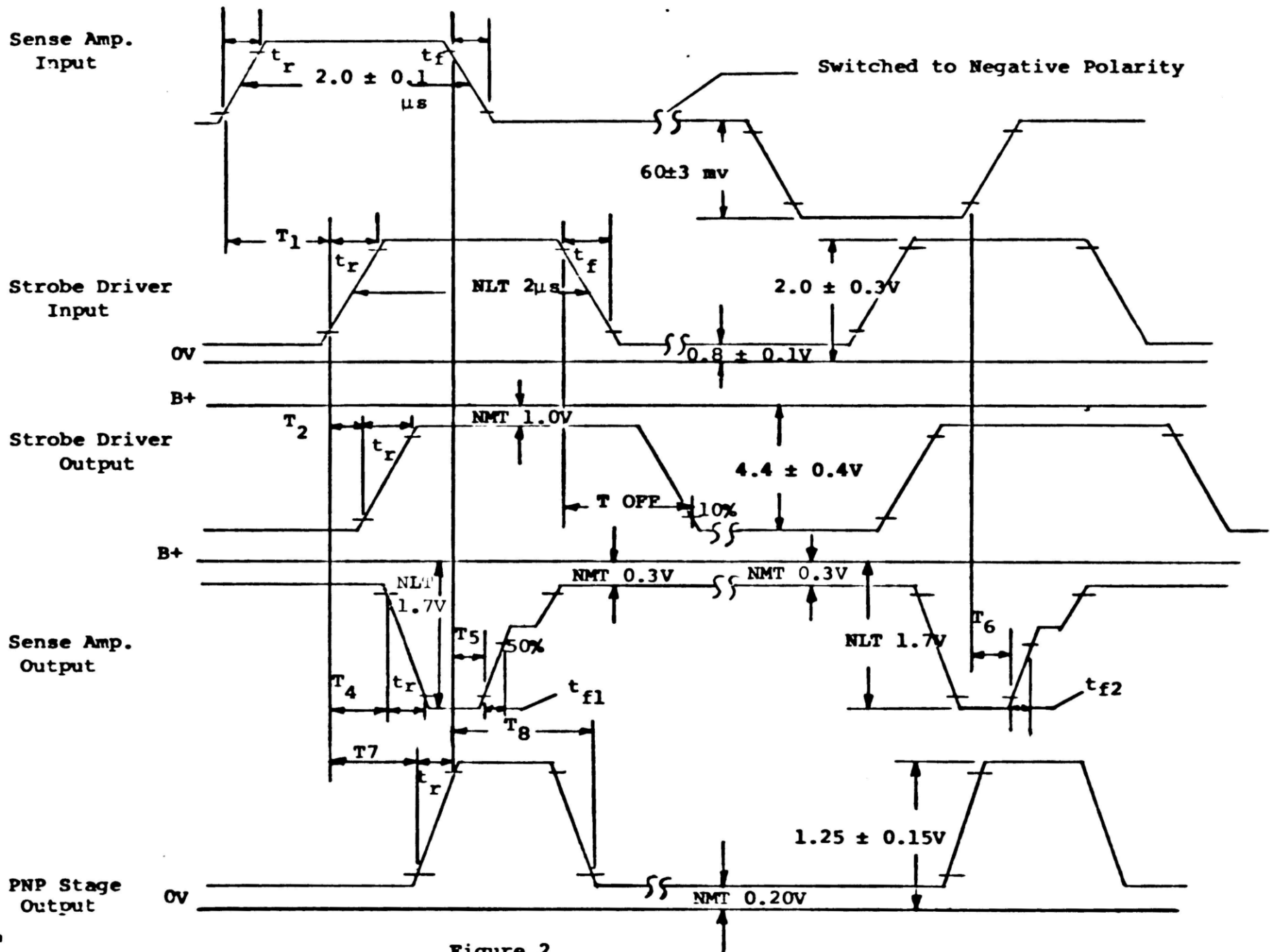


Figure 2