

**MNLH0071-2-H REV 0BL**Original Creation Date: 09/18/95  
Last Update Date: 12/20/96  
Last Major Revision Date: 09/18/95**PRECISION BINARY BUFFERED REFERENCE****Industry Part Number**

LH0071

**NS Part Numbers**

LH0071-2H-MIL

**Prime Die**

LH0071

**Processing**

MIL-STD-883, Method 5004

**Quality Conformance Inspection**

MIL-STD-883, Method 5005

**Subgrp Description Temp ( °C)**

|    |                     |      |
|----|---------------------|------|
| 1  | Static tests at     | +25  |
| 2  | Static tests at     | +125 |
| 3  | Static tests at     | -55  |
| 4  | Dynamic tests at    | +25  |
| 5  | Dynamic tests at    | +125 |
| 6  | Dynamic tests at    | -55  |
| 7  | Functional tests at | +25  |
| 8A | Functional tests at | +125 |
| 8B | Functional tests at | -55  |
| 9  | Switching tests at  | +25  |
| 10 | Switching tests at  | +125 |
| 11 | Switching tests at  | -55  |

## Electrical Characteristics

### DC PARAMETERS

(The following conditions apply to all the following parameters, unless otherwise specified.)

DC:  $V_i = 15V$ ,  $R_L = 10K$

| SYMBOL | PARAMETER                        | CONDITIONS                               | NOTES | PIN-NAME | MIN    | MAX        | UNIT | SUB-GROUPS |
|--------|----------------------------------|------------------------------------------|-------|----------|--------|------------|------|------------|
| $I_s$  | Quiescent Current (Functional)   | $I_o = 0mA$                              |       |          | 1      | 10         | mA   | 1, 2, 3    |
| $V_o$  | Output Voltage (Functional)      |                                          |       |          | 9.75   | 10.75      | V    | 1, 2, 3    |
| $V_O$  | Output Voltage                   | $V_o = 10.240V + \text{Output Accuracy}$ | 1     |          | 10.235 | 10.245     | V    | 1          |
|        |                                  |                                          | 1     |          | 10.22  | 10.26      | V    | 2, 3       |
|        | Output Accuracy                  |                                          |       |          |        | $\pm 0.05$ | %    | 1          |
|        |                                  |                                          |       |          |        | $\pm 0.2$  | %    | 2, 3       |
|        | Line Regulation                  | $13V < V_i < 33V$                        |       |          |        | $\pm 0.03$ | %    | 1          |
|        | Load Regulation                  | $0 < I_o < 5mA$                          |       |          |        | $\pm 0.03$ | %    | 1, 2, 3    |
| $I_s$  | Quiescent Current                | $V_i = 13V$                              |       |          | 1      | 5          | mA   | 1, 2, 3    |
|        |                                  | $V_i = 33V$                              |       |          | 1      | 5          | mA   | 1, 2, 3    |
|        | Change In Quiescent Current      | $13V < V_i < 33V$                        |       |          |        | 1.5        | mA   | 1, 2, 3    |
|        | Output Voltage Change with Temp. | $25^\circ C < T_A < 85^\circ C$          | 3     |          |        | $\pm 0.04$ | %    | 1          |
|        |                                  | $-25^\circ C < T_A < 25^\circ C$         | 2     |          |        | $\pm 0.04$ | %    | 1          |
|        | Input Voltage Range              |                                          | 2     |          | 12.5   | 40         | V    | 1, 2, 3    |
| $R_o$  | Output Resistance                |                                          | 1     |          |        | 1          | Ohm  | 1, 2, 3    |
|        | Long Term Stability              |                                          | 2     |          |        | $\pm 0.05$ | %/YR | 1          |

Note 1: Parameter tested go-no-go only.

Note 2: Guaranteed parameter not tested.

Note 3: This test is performed either on J273 when program is set to run with switch register = mode 1 (SEE FTS-LH0071H-R) or Drift oven tester per RPI-3-382.