



MILITARY DATA SHEET

MNLH0032-G REV 0BL

Original Creation Date: 09/18/95
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ULTRA FAST FET OP-AMP

Industry Part Number

LH0032

NS Part Numbers

LH0032G-MIL

Prime Die

LH0032

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: $V_s = \pm 15V$

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Vos	Input Offset Voltage				5		mV	1
					10		mV	2, 3
Ios	Input Offset Current	(Measured in still air after 7 min)	2			0.250	nA	1
		(Pulse Correlated Test)	2			0.025	nA	1
			2			25	nA	2, 3
Ibias	Input Bias Current	(Measured in still air after 7 min)	2			1	nA	1
		(Pulse Correlated Test)	2			0.1	nA	1
			2			50	nA	2, 3
Av	Large Signal Voltage Gain	Vout = $\pm 10V$, $f = 1KHZ$, $R_l = 1K$	2		60		dB	1
		Vout = $\pm 10V$, $f = 1KHZ$, $R_l = 1K$	2		57		dB	2, 3
		(Pulse Correlated at DC)	2		48		dB	1
			2		45		dB	2, 3
CMRR	Common Mode Rejection Ratio	Delta Vin = $\pm 10V$			50		dB	1, 2, 3
PSSR	Power Supply Current Rejection Ratio	$\pm 5 < V_s < 15$			50		dB	1, 2, 3
Is	Power Supply Current	(Measured in still air after 7 min)	2			20	mA	1
		(Pulse Correlated Test)	2			23	mA	1
Vout	Output Voltage Swing	$R_l = 1K$	1		± 10		V	1, 2, 3
Vincm	Input Voltage Range		1		± 10		V	1, 2, 3

AC PARAMETERS

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

AC: $V_s = \pm 15V$

Sr	Slew Rate	Av = 1, Delta Vin = 20V, $R_l = 1K$	3		350		V/uS	9
tr	Small Signal Rise Time	Av = 1, Delta Vin = 1V, $R_l = 1K$	2			20	nS	9
tDelay	Small Signal Delay Time	Av = 1, Delta Vin = 1V, $R_l = 1K$	2			25	nS	9
Delta Vos/Delta T	Average Offset Voltage Drift	$25 < T_A < 125$	4			50	uV/C	9

Electrical Characteristics

DC PARAMETERS: DRIFT VALUES

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

DC: $V_s = \pm 15V$. "Deltas not required on B-Level product. Deltas required for S-Level product ONLY as specified on Internal Processing Instructions (IPI)."

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Vos	Input Offset Voltage				-2	2	mV	1

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

Note 2: Guaranteed parameter not tested.

Note 3: Bench test For SG use RPI-3-94, For SC use THP-4-006-HY

Note 4: Use FTS-LH-0032-GD2 or FTS-LH-0032-GD1.