



MICROCIRCUIT DATA SHEET

MNLF444M-X REV 0AL

Original Creation Date: 06/21/95
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QUAD LOW POWER JFET INPUT OPERATIONAL AMPLIFIER

Industry Part Number

LF444

NS Part Numbers

LF444MD/883

Prime Die

LF444

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: $V_s = \pm 15V$, $V_{cm} = 0V$, $R_s=0$, $R_l=0$

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Vio	Input Offset Voltage	Rs = 10K Ohms			-10	10	mV	1
					-14	14	mV	2, 3
Iio	Input Offset Current	Rl = 10K Ohms			-0.05	0.05	nA	1
					-10	10	nA	2
+Iib	Input Bias Current	Rl = 10K Ohms			-0.10	0.10	nA	1
					-20	20	nA	2
-Iib	Input Bias Current	Rl = 10K Ohms			-0.10	0.10	nA	1
					-20	20	nA	2
+Avs	Large Signal Voltage Gain	Vo = 0 to +10V, Rl = 10K Ohms, Rs = 10K Ohms	2		25		V/mV	1
			2		15		V/mV	2, 3
-Avs	Large Signal Voltage Gain	Vo = 0 to -10V, Rl = 10K Ohms, Rs = 10K Ohms	2		25		V/mV	1
			2		15		V/mV	2, 3
+Vo	Output Voltage Swing	Rl = 10K Ohms, Vin = +1V			12		V	1, 2, 3
-Vo	Output Voltage Swing	Rl = 10K Ohms, Vin = -1V				-12	V	1, 2, 3
Vcm	Input Common Mode Voltage Range		1		± 9		V	1, 2, 3
CMRR	Common Mode Rejection Ratio	Rs = 10K Ohms, Vcm = $\pm 9V$			70		dB	1, 2, 3
PSRR+	Power Supply Rejection Ratio	Vs = $\pm 15V$ to Vs = $\pm 6V$			70		dB	1, 2, 3
PSRR-	Power Supply Rejection Ratio	Vs = $\pm 15V$ to Vs = $\pm 6V$			70		dB	1, 2, 3
Is	Supply Current					1	mA	1, 2, 3
+Ios	Output Short Circuit Current	Vin = 1V			-3	-20	mA	1
					-3	-40	mA	2, 3
-Ios	Output Short Circuit Current	Vin = -1V			3	20	mA	1
					3	40	mA	2, 3

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

Note 2: Datalog in K = V/mV.