



MILITARY DATA SHEET

MNLM715-X REV 0AL

Original Creation Date: 08/04/95
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OPERATIONAL AMPLIFIER

Industry Part Number

LM715

NS Part Numbers

LM715H/883

Prime Die

LM715

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: $V_{cc} = \pm 15V$, $V_{cm} = 0V$

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Vio	Input Offset Voltage	Rs = 10K			-5.0	5.0	mV	1
					-7.5	7.5	mV	2, 3
		Rs = 50 Ohms			-5.0	5.0	mV	1
					-7.5	7.5	mV	2, 3
Iio	Input Offset Current				-250	250	nA	1, 2
					-800	800	nA	3
Iib+	Input Bias Current				0	0.75	uA	1, 2
					0	4	uA	3
Iib-	Input Bias Current				0	0.75	uA	1, 2
					0	4	uA	3
Icc	Power Supply Current					7.0	mA	1
PSRR	Power Supply Rejection Ratio	Rs = 10K, $V_{cc} = \pm 7V$ to $\pm 18V$				300	uV/V	1, 2, 3
CMRR	Common Mode Rejection Ratio	-10V < V_{cm} < 10V, Rs = 10K			74		dB	1, 2, 3
Vir	Input Voltage Range		1		-10.0	10.0	V	1, 2, 3
Avs+	Open Loop Gain	Rl = 2K, Vo = 0 to 10V			15.0		V/mV	4
					10.0		V/mV	5, 6
Avs-	Open Loop Gain	Rl = 2K, Vo = 0 to -10V			15.0		V/mV	4
					10.0		V/mV	5, 6
Vop+	Output Voltage Swing	Rl = 2K Ohms			10.0		V	4, 5, 6
Vop-	Output Voltage Swing	Rl = 2K Ohms				-10.0	V	4, 5, 6
Sr+	Slew Rate	Vin = 0V to 5V, Av = 1			15.0		V/uS	9
Sr-	Slew Rate	Vin = 0V to 5V, Av = 1			15.0		V/uS	9
tr	Rise Time Overshoot	Vin = 0V to 400mV, Av = 1				60.0	nS	9
os	Rise Time Overshoot	Vin = 0V to 400mV, Av = 1				40.0	%	9

Note 1: Guaranteed by CMRR test.