



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089

NTE1230 Integrated Circuit FM Multiplex Stereo Demodulator

Description:

The NTE1230 is a monolithic integrated circuit in a 16-Lead DIP type package designed for use as an FM stereo multiplex demodulator. This device includes 2 channel amplifiers that can make the 0dB line output.

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Maximum Supply Voltage, V_{CCmax} 20V
 Lamp Driver Current, I_L 40mA
 Preamp Output Stage Current, I_6, I_8 1.5mA
 Operating Temperature Range, T_{opr} -20° to $+80^\circ\text{C}$
 Storage Temperature Range, T_{stg} -40° to $+125^\circ\text{C}$

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC} 9V

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 9\text{V}$, $f = 1\text{kHz}$, Input = 100mV, L + R = 90%, Pilot = 10% unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CC}		–	15	20	mA
Lamp “ON” Level	V_L		50	–	100	mV
Hysteresis of Lamp “ON – OFF”			–	–	4.0	dB
Channel Separation Left Channel	Sep		35	–	–	dB
Right Channel			35	–	–	dB
Total Harmonic Distortion Left Channel	THD		–	–	1.5	%
Right Channel			–	–	1.5	%
Output Voltage Left Channel	V_O		200	–	400	mV
Right Channel			200	–	400	mV
Channel Balance	Ba		–	–	2.0	dB
SCA Rejection		L + R = 80%, Pilot = 1–%, SCA = 10%	–	55	–	dB

Pin Connection Diagram

