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## 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,  $T_{opr}$  .....  $-20^\circ$  to  $+80^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-40^\circ$  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

