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NTE1560 Integrated Circuit Phase Lock Loop (PLL) FM Stereo Multiplex Demodulator

Description:

The NTE1560 is an integrated circuit in a 16-Lead DIP type package designed for low voltage radio and cassette tape recorders.

Features:

- LED Mis-Turning Protection Circuit at Transient Operation Voltage
- Provided with Forced Monaural and VCO Stop Circuits
- High Performance (Low Gain Loss, Low Distortion)

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

Supply Voltage, V_{CC}	12V
Circuit Voltage, V_{6-7}	12V
Circuit Current, I_6	75mA
Power Dissipation, P_D	360mW
Operating Ambient Temperature Range, T_{opr}	-20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 6\text{V}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	I_{tot}	$V_i = 0$	9	13	17	mA
Separation	Sep	$V_{(L+R)} = 135\text{mV}_{rms}$, $f_m = 1\text{kHz}$, $V_P = 15\text{mV}_{rms}$	30	45	–	dB
Stereo Total Harmonic Distortion	THD		–	0.1	0.3	%
Monaural Harmonic Distortion	THD	$V_i = 150\text{mV}_{rms}$, $f_m = 1\text{kHz}$	–	0.1	0.3	%
Monaural Output Voltage	V_O		125	145	170	mV_{rms}
Monaural Channel Balance	CB		–1	0	+1	dB
Lamp Lighting ON Pilot Voltage	$V_{P(ON)}$	Pilot Signal (19kHz)	4.5	6.0	8.5	mV_{rms}

Pin Connection Diagram

