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NTE1149 Integrated Circuit FM Tuning System

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

Supply Voltage (Pin 14), V_{CC}	15V
Lamp Voltage, V_{LAMP}	20V
Lamp Current, V_{LAMP}	40mA
Power Dissipation, P_D	500mW
Operating Temperature Range ($V_{CC} = 12V$), T_{opr}	0 to $+60^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55 to $+125^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 12V$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Lamp Voltage	V_{LAMP}	Voltage Gain from Terminal 1 to 13 is 35dB	–	10	16	mV
		Lamp Turn ON – $V_i = 10.7\text{Mhz}$ Lamp Turn OFF – $V_i = 10.7\text{Mhz}$ (Note 1)	6	10	–	mV
Tuning Meter Min. Operating Input Voltage		Voltage Gain from Terminal 1 to 13 is 35dB	–	7	–	mV
Tuning Meter Operating Range			–	30	–	dB
Center Meter Output Current		Meter Internal Input Resistance 20k Ω , Discriminator $V_i = \pm 0.5V$	40	60	75	μA
Muting On Output Voltage			1.8	23	–	V
Muting Off Output Voltage			–	0.2	0.6	V
Internal Power Dissipation	P_D	At Lamp ON	–	230	–	mW
		At Lamp OFF	–	150	–	mW

Pin Connection Diagram
(Front View)

