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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 ( $V_{CC} = 12\text{V}$ ), $T_{opr}$ .....	0 to $+60^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-55$ to $+125^\circ\text{C}$

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = 12\text{V}$  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 $\Omega$ , Discriminator $V_i = \pm 0.5\text{V}$	40	60	75	$\mu\text{A}$
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)

