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NTE1050 Integrated Circuit Color TV Chroma Demodulator

Description:

The NTE1050 is a monolithic silicon integrated circuit which demodulates the chroma signal contained in a color television video signal and provides the R, G, and B signals at the outputs directly.

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

Supply Voltage, V_{CC}	28V
Load Resistance, R_L	3k Ω Min.
Power Dissipation ($T_A = +75^\circ\text{C}$), P_D	550mW
e_A, e_B	5V _{p-p}
Chroma Input Signal, e_C	5V _{p-p}
e_Y	-5V _{p-p}
V_{iBLANK}	5V _{p-p}
Operating Temperature Range, T_{opt}	-20° to +75°C
Storage Temperature Range, T_{stg}	-40° to +125°C

Electrical Characteristics: ($T_A = 25^\circ\text{C}$, $V_{CC} = 24\text{V}$, $R_L = 3.3\text{k}\Omega$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC1}	$R_L = 1\text{M}\Omega$	5	9	14	mA
	I_{CC2}	$R_L = 3.3\text{k}\Omega$	16	22	27	mA
	$\Theta_{DC1,2,4}$	-20°C ~ +75°C	-	0	±4	mV/°C
Chroma Input Signal	e_C	$E_{B-Y} = 5\text{V}_{p-p}$	-	0.4	0.7	V _{p-p}
	ΔV_B	$\Delta V_B = V_4 - V_{4B}$	0.8	1.5	3.0	V

Pin Connection Diagram

