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NTE1046 Integrated Circuit TV AFC Circuit

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

Supply Voltage, V_{CC}	20V
Input Voltage, V_{IN}	7V _{p-p}
Supply Current, I_{CC}	30mA
Power Dissipation ($T_A = 70^\circ\text{C}$), P_D	360mW
Operating Temperature Range, T_{opr}	-20° to +75°C
Storage Temperature Range, T_{stg}	-40° to +125°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 16\text{V}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}		13	16	19	mA
Circuit Current	I_{10}		1.3	1.75	2.2	mA
Voltage Gain	A_{VIF}	$f = 58\text{MHz}$, $R_L = 1\text{k}\Omega$, $V_i = 1\text{mV}_{rms}$	25	29	-	dB
Input Limit Voltage	$V_{i(lim)}$	$f = 58\text{MHz}$, $R_L = 1\text{k}\Omega$	-	20	50	mV_{rms}
DC Voltage Gain	A_{VDC}	$f = 58.75\text{MHz}$, $\Delta f = 100\text{kHz}$, $f_M = 400\text{Hz}$, $V_i = 1\text{mV}_{rms}$	-	35	-	dB
Circuit Voltage	V_8		12.3	13.0	13.7	V
	V_2		6	7	8	V
	V_3		6	7	8	V

Pin Connection Diagram
(Front View)



