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NTE1045 Integrated Circuit FM/TV Sound IF Amp, Detector

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

Supply Voltage, V_{CC}	13V
Input Voltage, V_{IN}	3V _{p-p}
Supply Current, I_{CC}	35mA
Power Dissipation, P_d	350mW
Operating Temperature Range, T_{opr}	-20° to +75°C
Storage Temperature Range, T_{stg}	-40° to +125°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 10\text{V}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}		-	18	25	mA
Voltage Gain	A_{vIF1}	$f = 4.5\text{MHz}$, 50Ω , $R_L = 1\text{k}\Omega$, $V_i = 100\mu\text{V}_{rms}$	65	72	-	dB
	A_{vIF2}	$f = 10.7\text{MHz}$, 50Ω , $R_L = 1\text{k}\Omega$, $V_i = 100\mu\text{V}_{rms}$	60	67	-	dB
Input Limit Voltage	$V_{i(lim)}$	$f = 4.5\text{MHz}$, 50Ω	-	250	700	μV_{rms}
AM Rejection	AMR	$f = 4.5\text{MHz}$, $\Delta f = 25\text{kHz}$, FM100% $f_M = 400\text{Hz}$, AM30%, $V_i = 1\text{mV}_{rms}$	40	50	-	dB
Output Voltage	V_{OAF}	$f = 4.5\text{MHz}$, $\Delta f = 25\text{kHz}$, $f_M = 400\text{Hz}$, $V_i = 1\text{mV}_{rms}$	-	320	380	mV_{rms}
Total Harmonic Distortion	THD		-	0.8	1.5	%

Pin Connection Diagram
(Front View)



