

NTE1049 Integrated Circuit AM Tuner w/RF Amp

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

Supply Voltage, V_{CC}	15V
Supply Current, I_{CC}	40mA
Operating Temperature Range, T_{opt}	-20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+125^\circ\text{C}$

Recommended Operating Conditions:

Supply Voltage, V_{CC}	10V
Supply Current, I_{CC}	20mA

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}		15	20	25	mA	
Voltage Gain	A_v	$f = 1\text{MHz}$, $R_L = 1\text{k}\Omega$, $R_G = 50\Omega$	$R_{B1} = 30\text{k}\Omega$, $V_i = 5\text{mV}$	19	23	26	dB
			$R_{B1} = 3.9\text{k}\Omega$, $V_i = 10\text{mV}$	13	16	20	dB
		$f_i = 455\text{kHz}$, 400Hz, 30% MOD, $R_G = 50\Omega$, $V_O = 400\text{Hz}$, $R_L = 10\text{k}\Omega$	17	20	26	dB	
Output Voltage	V_O	$f_i = 455\text{kHz}$, 400Hz, 30% MOD, $R_L = 10\text{k}\Omega$	–	80	–	mV	
Total Harmonic Distortion	THD	$f_i = 455\text{kHz}$, 400Hz, 80% MOD, $R_L = 10\text{k}\Omega$, $V_O \doteq 220\text{mV}$	–	1.5	–	%	
AGC Range	AGC		75	85	–	dB	

Pin Connection Diagram

