



ELECTRONICS, INC.
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NTE1451 Integrated Circuit 2-Channel, Low Noise, Equalizer Amp

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

Supply Voltage, V_{CC} 36V
Power Dissipation, P_D 350mW
Operating Temperature Range, T_{opr} -20° to $+80^\circ\text{C}$
Storage Temperature Range, T_{stg} -40° to $+125^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 30\text{V}$, $R_L = 47\text{k}\Omega$, $f = 1\text{kHz}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Circuit Current	I_{CC}		–	7	10	mA
Voltage Gain	V_G		38	40	42	dB
Output Voltage Gain	V_{GO}		85	89	–	dB
Output Voltage	V_O	THD = 0.1%	6	8	–	V
Total Harmonic Distortion	THD	$V_O = 2\text{V}$	–	0.05	0.1	%
Input Resistance	r_i		–	200	–	$\text{k}\Omega$
Input Voltage	V_{IN}	$R_g = 2.3\text{k}\Omega$, RIAA	–	1	2	μV

Pin Connection Diagram

