



ELECTRONICS, INC.
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NTE1459 Integrated Circuit Low Noise, Equalizier Amp

Features:

- High Open Loop Gain, Low Distortion
- High S/N Because of High Gain at 1st Stage
- Excellent Characteristics for Supply Voltage and Temperature

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

Supply Voltage, V_{CC} 15V
Power Dissipation ($T_A \leq 80^\circ\text{C}$), P_D 100mW
Operating Temperature Range, T_{opr} -20° to $+80^\circ\text{C}$
Storage Temperature Range, T_{stg} -40° to $+125^\circ\text{C}$

Recommended Operating Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC} 9V
Load Resistance, R_L 10k Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 9\text{V}$, $R_L = 10\text{k}\Omega$, $f = 1\text{kHz}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Dissipation Current	I_{CC}		–	1.2	2.3	mA
Voltage Gain	V_G	Open Loop	75	79	–	dB
		Closed Loop	43	45	47	dB
Output Voltage	V_O	THD = 1.0%	1.0	1.5	–	V
Total Harmonic Distortion	THD	$V_O = 0.5\text{V}$	–	0.1	–	%
Input Resistance	r_i		–	120	–	k Ω
Noise Voltage Converted to Input	V_{NI}	$R_g = 2.2\text{k}\Omega$, NAB	–	1	2	μV

Pin Connection Diagram

