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NTE1457 Integrated Circuit Low Noise, Equalizer Amp

Absolute Maximum Ratings:

Supply Voltage, V_{CC} 28V
 Power Dissipation ($T_A \leq +80^\circ\text{C}$), P_D 100mW
 Operating Temperature Range, T_{opt} -20° to $+80^\circ\text{C}$
 Storage Temperature Range, T_{stg} -40 to $+125^\circ\text{C}$

Recommended Operating Condition:

Supply Voltage, V_{CC} 20V
 Load Resistance, R_L 47k Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 20\text{V}$, $f = 1\text{kHz}$, $R_L = 47\text{k}\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}		-	3.0	4.0	mA
Voltage Gain	V_G		38	40	42	dB
Output Voltage	V_O	THD = 0.2%	3.0	4.0	-	V
Total Harmonic Distortion	THD	$V_O = 2\text{V}$	-	0.05	-	%
Input Resistance	r_i		-	200	-	k Ω
Input Noise Voltage	V_{NI}	$R_g = 2.2\text{k}\Omega$, RIAA	-	1.0	2.0	μV

