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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,  $T_{opt}$  .....  $-20^\circ$  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 $\Omega$

**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 $\Omega$
Input Noise Voltage	$V_{NI}$	$R_g = 2.2\text{k}\Omega$ , RIAA	–	1.0	2.0	$\mu\text{V}$

**Pin Connection Diagram**  
(Front View)

