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## NTE1453 Integrated Circuit 2-Channel, Low Noise, Equalizer Amp

**Features:**

- Low Noise, Low Distortion
- Superior S/N
- Good Thermal and Voltage Regulation

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

Supply Voltage, $V_{CC}$ .....	28V
Allowable Dissipation Power, $P_{Dmax}$ .....	200mW
Operating Temperature Range, $T_{opr}$ .....	$-20^\circ$ to $+80^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40^\circ$ to $+125^\circ\text{C}$

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

Supply Voltage, $V_{CC}$ .....	20V
Load Resistance, $R_L$ .....	47k $\Omega$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Dissipation Current	$I_{CC}$	2 channel	-	4.7	6.5	mA
Voltage Gain	$V_G$	open loop	-	90	-	dB
		closed loop	38	40	42	dB
Output Voltage	$V_O$	THD = 0.2%	4.0	5.0	-	V
Total Harmonic Distortion	THD	$V_O = 2\text{V}$	-	0.05	0.1	%
Input Resistance	$r_i$		-	200	-	k $\Omega$
Noise Voltage Converted to Input	$V_{NI}$	$R_g = 2.2\text{k}\Omega$ , RIAA	-	1.0	2.0	$\mu\text{V}$
Cross Talking			-	-60	-	dB
Gain Difference		between 2 channels	-	-	0.5	dB

### Pin Connection Diagram

