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NTE1083 Integrated Circuit Hybrid, Dual High Gain Pre-Amplifier

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

Power Dissipation, V_{CC}	28V
Collector Current, I_{CC}	5mA
Input Voltage, V_I	1V
Operating Temperature Range, T_{opr}	-20° to +65°C
Storage Temperature Range, T_{stg}	-30° to +80°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 12\text{V}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Open Loop Voltage Gain	A_{VO}	$f = 1.0\text{KHz}, R_L = 33\text{k}\Omega$	60	64	-	dB
Max. Output Voltage	V_{OMAX}		2.2	2.5	-	V
Noise Level	NL		-	-	60	μV
Total Harmonic Distortion	THD	$V_O = 1\text{V}_{rms}, f = 1\text{KHz}, R_L = 33\text{k}\Omega$	-	-	0.1	%
Input Resistance	r_i	$f = 1\text{KHz}, R_L = 33\text{k}\Omega$	100	120	-	$\text{k}\Omega$
Output Resistance	r_o	$f = 1\text{KHz}$	-	40	100	Ω
Supply Current	I_{CC}		-60	-	-	dB
			-	-	670	μA

Pin Connection Diagram

