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NTE1179 Integrated Circuit Pre-Amplifier with ALC Transistors

Features:

- Low Noise, Low Distortion
- Includes ALC Transistor

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$, $V_{CC} = 5.5\text{V}$ unless otherwise specified)

Maximum Supply Voltage, V_{CCMAX}	9.5V
Allowable Current Dissipation, I_{CCMAX}	10mA
Maximum Current of Transistor, I_{CCMAX}	5mA
Allowable Power Dissipation, P_{DMAX}	200mW
Operating Temperature Range, T_{opr}	-20 to +60°C
Storage Temperature Range, T_{stg}	-40 to +125°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 5.5\text{V}$, $f = 1\text{kHz}$, $R_L = 10\text{k}\Omega$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		-	1.1	-	mA
Voltage Gain	V_G	Open Loop	56	58	-	dB
		Closed Loop	42	45	48	dB
Output Voltage	V_O	THD = 5%	0.7	1.2	-	V
Total Harmonic Distortion	THD	$V_O = 200\text{mV}$	-	-	1.0	%
Input Resistance	R_i		20	-	-	k Ω
Noise Output Voltage	V_{NO}	Input: Recording Head, $V_G = 75\text{dB}$	-	-	10	mV
ALC Rejection			-	-	9	dB

Pin Connection Diagram
(Front View)

