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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)

