

NTE1481 Integrated Circuit Dual Recording Output Amplifier

Applications:

- Suitable for dual amplifiers of line output, of recording output, or headphone driving.

Features:

- Wide operation voltage range
- Small pop noise
- Dual amplifiers installed

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

| | |
|--|-------------------------------------|
| Maximum Supply Voltage, V_{CCmax} | 22V |
| Current Dissipation (Pin2: Flow In, Pin7, Pin8: Flow Out Only), I_{CC} | 0.5A |
| Allowable Power Dissipation, P_{Dmax} | 1.05W |
| Operating Temperature Range, T_{opr} | -20° to $+70^\circ\text{C}$ |
| Storage Temperature Range, T_{stg} | -40° to $+150^\circ\text{C}$ |

Recommended Operation Condition: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

| | |
|--|------------|
| Recommended Supply Voltage, V_{CC} | 12V |
| Load Resistance, R_L | 39Ω |

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 12\text{V}$, $R_L = 39\Omega$, $f = 1\text{kHz}$, $R_g = 600\Omega$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---------------------------|-----------|--|-----|-----|-----|---------------|
| Quiescent Current | I_{CCO} | | 5 | 8 | 15 | mA |
| Voltage Gain | V_G | | - | 38 | - | dB |
| Output Voltage | V_O | THD = 1% | 1.9 | 2.2 | - | V |
| Total Harmonic Distortion | THD | $V_O = 1\text{V}$ | - | 0.1 | 0.5 | % |
| Input Resistance | r_i | $V_O = 1\text{V}$ | 20 | 30 | 40 | $k\Omega$ |
| Output Noise Voltage | V_{NO} | $R_g = 1k\Omega$, $f = 15\text{Hz}$ to 30kHz | - | 100 | 200 | μV |
| Separation | | | -45 | -65 | - | dB |
| Channel Balance | | | - | - | 1 | dB |

Pin Connection Diagram

