

NTE1879
Integrated Circuit
Module, Hybrid, Dual Audio Power Amp,
18W/Ch, Dual Power Supplies

Applications:

- Video Projectors

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

| | |
|---|-------------------------------------|
| Supply Voltage, V_{CC} | $\pm 30\text{V}$ |
| Operating Case Temperature, T_C | $+105^\circ\text{C}$ |
| Storage Temperature Range, T_{stg} | -30° to $+105^\circ\text{C}$ |
| Total Thermal Resistance, Junction-to-Case, R_{thJC} | 1.0°C/W |
| Available Time for Load Shorted ($V_{CC} = \pm 20.5\text{V}$, $R_L = 8\Omega$, $P_O = 18\text{W}$, $f = 50\text{Hz}$), t_S | 2sec |

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

| | |
|--------------------------------|------------------|
| Supply Voltage, V_{CC} | $\pm 24\text{V}$ |
|--------------------------------|------------------|

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 24\text{V}$, $R_g = 50\Omega$, unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-------------------|-----------|--|-----|-----|-----|--------------------------|
| Quiescent Current | I_{CCO} | | – | 15 | 25 | mA |
| Noise Voltage | V_{NO} | | – | – | 0.2 | mV_{rms} |
| Midpoint Voltage | V_N | | –50 | 0 | +50 | mV |
| Output Delay Time | t_D | $V_{CC} = \pm 20.5\text{V}$, $f = 15.75\text{kHz}$, Triangular Wave Input $V_{P-P} = 1.5\text{V}$ | – | – | 1 | μs |

Note 1. For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.

Note 2. The output noise voltage is represented by the peak value on an RMS scale (V_{TVM}) of the average value indicated.

Pin Connection Diagram
(Front View)

| | |
|----|---------------------------|
| 15 | Rt Ch Input (+) |
| 14 | Rt Ch Input (-) |
| 13 | Bypass |
| 12 | Feedback |
| 11 | Rt Ch Output |
| 10 | Rt Ch (-) V _{CC} |
| 9 | (+) V _{CC} |
| 8 | (+) V _{CC} |
| 7 | Lt Ch (-) V _{CC} |
| 6 | Lt Ch Output |
| 5 | Feedback |
| 4 | Bypass |
| 3 | GND |
| 2 | Lt Ch Input (-) |
| 1 | Lt Ch Input (+) |

