



ELECTRONICS, INC.
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NTE1218 Integrated Circuit Module, Hybrid, Dual Audio Power Amp, 7W/Ch

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

| | |
|--|----------------|
| Supply Voltage, V_{CCmax} | 39V |
| Operating Junction Temperature, T_J | +150°C |
| Operating Case Temperature, T_C | +125°C |
| Storage Temperature Range, T_{stg} | -30° to +125°C |
| Thermal Resistance, Junction-to-Case, R_{thJC} | 7°C/W |
| Turn-On Time ($V_{CC} = 27V$, $R_L = 8\Omega$, $P_O = 7W$, $f = 50Hz$), t_S | 2sec |

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

| | |
|--------------------------------|-----|
| Supply Voltage, V_{CC} | 27V |
| Load Resistance, R_L | 8Ω |

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 27V$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 40dB$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---------------------------|------------|------------------------------------|-----------|-----|-----|-------------------|
| Idle Current | I_{CCO} | $V_{CC} = 33V$ | 20 | 60 | 120 | mA |
| Power Output | P_O | THD = 1%, $f = 1kHz$ | 7.0 | - | - | W |
| | | THD = 1%, $f = 40Hz$ to $20kHz$ | 28 | - | - | W |
| Total Harmonic Distortion | THD | $P_O = 0.1W$, $f = 1kHz$ | - | - | 0.5 | % |
| Frequency Range | f_L, f_H | $P_O = 0.1W$, $V_G = -3dB$ | 40 to 50k | | | Hz |
| Input Resistance | r_i | $P_O = 0.1W$, $f = 1kHz$ | - | 110 | - | kΩ |
| Noise Voltage | V_{NO} | $V_{CC} = 33V$, $R_g = 10k\Omega$ | - | - | 0.8 | mV _{rms} |

Pin Connection Diagram
(Front View)

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

