



ELECTRONICS, INC.
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NTE1240 Integrated Circuit Audio Power Amp, 5.5W

Features:

- High Output Power and High Gain
- Highly Breakdown-Resistant Against Overloading and Short-Circuits
- Easy-to-handle packaging: 11-lead SIL plastic

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

| | |
|--|-------------------------------------|
| Supply Voltage, V_{CC} | 18V |
| DC Supply Current, I_{CC} | 2.2A |
| Power Dissipation ($T_A = +75^\circ\text{C}$), P_D | 6W |
| Operating Temperature Range, T_{opr} | -20° to $+75^\circ\text{C}$ |
| Storage Temperature Range, T_{stg} | -55° to $+150^\circ\text{C}$ |

Electrical Characteristics: ($V_{CC} = 13.2\text{V}$, $R_L = 4\Omega$, $T_A = +25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---------------------------|----------|---|-----|------|-----|------|
| Quiescent Current | I_{CQ} | $V_{in} = 0$ | 10 | 28 | 60 | mA |
| Voltage Gain | G_V | $V_{in} = 5\text{mV}$, $f = 1\text{kHz}$ | 52 | 53 | 54 | dB |
| Power Output | P_O | THD = 10%, $f = 1\text{kHz}$ | 4.5 | 5.5 | - | W |
| Total Harmonic Distortion | THD | $P_O = 2\text{W}$, $f = 1\text{kHz}$ | - | 0.25 | 1.5 | % |
| Output Noise Voltage | V_{no} | $V_{in} = 0$, $R_g = 10\text{k}\Omega$ | - | 0.6 | 4.5 | mV |

Pin Connection Diagram
(Front View)

