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# NTE1704
# Integrated Circuit
# Audio Power Amplifier, 1.2W

**Features:**
- Incorporating Automatic Operating Point Stabilizer
- Low Noise
- Variable Frequency Characteristics
- Few External Components Required

**Absolute Maximum Ratings:** ($T_A$ = +25°C unless otherwise specified)
Supply Voltage, $V_{CC}$ . . . . . 18V
Supply Current, $I_{CC}$ . . . . . 2A
Power Dissipation ($T_A$ = +30°C), $P_D$ . . . . . 1.5W
Operating Ambient Temperature Range, $T_{opr}$ . . . . . –20° to +75°C
Storage Temperatuere Range, $T_{stg}$ . . . . . –40° to +150°C

**Electrical Characteristics:** ($T_A$ = +25°C, $V_{CC}$ = 9V, $R_L$ = 8Ω, f = 1kHz unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Quiescent Circuit Current | $I_{CQ}$ | $V_i$ = 0 | 10 | 20 | 50 | mA |
| Voltage Gain | $G_{VC}$ | $V_i$ = 5mV | 43 | 46 | 49 | dB |
| Output Power | $P_O$ | THD = 10% | 0.8 | 1.2 | – | W |
| | | $V_{CC}$ = 6V, $R_L$ = 8Ω, THD = 10% | – | 0.55 | – | W |
| | | $V_{CC}$ = 6V, $R_L$ = 4Ω, THD = 10% | – | 0.9 | – | W |
| Total Harmonic Distortion | THD | $V_i$ = 5mV | – | 0.5 | 1.5 | % |
| Output Noise Voltage | $V_{no}$ | $R_g$ = 10kΩ | – | 0.5 | 1.2 | mV |
| Input Impedance | $Z_i$ | | – | 25 | – | kΩ |

**Pin Connection Diagram**
(Front View)