

## NTE1375 Integrated Circuit Audio Power Amp for Car Radio, 5.8W

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

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| Supply Voltage, $V_{CC}$               | 18V                                 |
| $V_C$ Peak                             | 40V                                 |
| Power Dissipation, $P_D$               | 6.5W                                |
| Operating Junction Temperature, $T_J$  | $+150^\circ\text{C}$                |
| Operating Temperature Range, $T_{opr}$ | $-20^\circ$ to $+75^\circ\text{C}$  |
| Storage Temperature Range, $T_{stg}$   | $-30^\circ$ to $+125^\circ\text{C}$ |

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = 13.2\text{V}$ ,  $R_L = 4\Omega$ ,  $f = 1\text{kHz}$  unless otherwise specified)

| Parameter                 | Symbol    | Test Conditions                          | Min | Typ | Max | Unit             |
|---------------------------|-----------|------------------------------------------|-----|-----|-----|------------------|
| Quiescent Current         | $I_q$     | $V_{IN} = 0$                             | —   | 35  | 80  | mA               |
| Voltage Gain              | $G_{VE}$  | $R_{NF} = 68\Omega$                      | 52  | 55  | 58  | dB               |
| Output Power              | $P_{OUT}$ | THD = 10%                                | 5.0 | 5.8 | —   | W                |
| Total Harmonic Distortion | THD       | $P_{OUT} = 0.5\text{W}$                  | —   | 003 | 1.5 | %                |
| Input Noise Voltage       | $V_{NO}$  | $R_g = 10\text{k}$                       | —   | 1.0 | —   | mV               |
| Input Resistance          | $R_{in}$  | $f = 1\text{kHz}$                        | —   | 180 | —   | $\text{k}\Omega$ |
| Ripple Rejection          | RR        | $f_{RR} = 100\text{Hz}$ , $-10\text{dB}$ | —   | 40  | —   | dB               |

**Pin Connection Diagram**  
(Front View)

