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## NTE1340 Integrated Circuit Module, Hybrid, Audio Power Amplifier, 24W 2 Power Supplies Required

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

Maximum Supply Voltage,  $V_{CCmax}$  .....  $\pm 35\text{V}$   
 Operating Case Temperature,  $T_C$  .....  $+85^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-30^\circ$  to  $+100^\circ\text{C}$   
 Available Time for Load Shorted ( $V_{CC} = \pm 29\text{V}$ ,  $V_O = 14.2\text{V}$ ,  $f = 50\text{Hz}$ ),  $t_s$  ..... 2sec

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

Recommended Supply Voltage,  $V_{CC}$  .....  $\pm 25\text{V}$   
 Load Resistance,  $R_L$  .....  $8\Omega$

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

| Parameter                 | Symbol    | Test Conditions   | Min        | Typ | Max | Unit              |
|---------------------------|-----------|---|------------|-----|-----|-------------------|
| Quiescent Current         | $I_{CCO}$ | $V_{CC} = \pm 29\text{V}$   | -          | 50  | 100 | mA                |
| Output Power              | $P_O$     | THD = 0.2%, $f = 20\text{Hz}$ to $20\text{kHz}$                           | 24         | -   | -   | W                 |
|                           |           | THD = 0.2%, $f = 1\text{kHz}$   | -          | 28  | -   | W                 |
|                           |           | $V_{CC} = \pm 29\text{V}$ , THD = 0.2%, $f = 1\text{kHz}$                 | -          | 40  | -   | W                 |
| Total Harmonic Distortion | THD       | $P_O = 0.1\text{W}$ to $24\text{W}$ , $f = 20\text{Hz}$ to $20\text{kHz}$ | -          | -   | 0.2 | %                 |
| Frequency Response        | $f$       | $P_O = 1\text{W}$   | 10 to 100k |     |     | Hz                |
| Input Resistance          | $r_i$     | $P_O = 1\text{W}$ , $f = 1\text{kHz}$                                     | -          | 52k | -   | $\Omega$          |
| Output Noise Voltage      | $V_{NO}$  | $V_{CC} = \pm 29\text{V}$ , $R_g = 10\text{k}\Omega$                      | -          | 0.3 | 0.5 | $\text{mV}_{rms}$ |
| Midpoint Voltage          | $V_N$     | $V_{CC} = \pm 29\text{V}$   | -70        | -   | +70 | mV                |

**Pin Connection Diagram**  
(Front View)

