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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)

