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## NTE1327 Integrated Circuit Module, Hybrid, Audio Power Amp 35 Watt, 2 Power Supplies Required

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

Supply Voltage ( $V_{5-24}$ ),  $V_{CC}$  .....  $\pm 43\text{V}$   
 Operating Temperature,  $T_C$  .....  $85^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-30$  to  $+100^\circ\text{C}$   
 Available Load Shorting Time ( $V_{CC} = \pm 29\text{V}$ ,  $f = 50\text{Hz}$ ,  $V_O = 14.2\text{V}/R_L$ ,  $t_s$  ..... 2sec

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

Supply Voltage,  $V_{CC}$  .....  $\pm 30\text{V}$   
 Load Resistance,  $R_L$  .....  $8\Omega$

**Electrical Characteristics:** ( $T_A = 25^\circ\text{C}$ ,  $V_{CC} = \pm 30\text{V}$ ,  $R_L = 8\Omega$ ,  $R_g = 600\Omega$ ,  $V_G = 26.4\text{dB}$ )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	$I_{CCO}$	$V_{CC} = \pm 36\text{V}$	-	50	100	mA
Output Power	$P_{O(1)}$	THD = 0.2%, $f = 20 \sim 20\text{kHz}$	35	-	-	W
	$P_{O(2)}$	THD = 0.2%, $f = 1\text{kHz}$	-	42	-	W
	$P_{O(3)}$	THD = 0.2%, $V_{CC} = \pm 36\text{V}$ , $f = 1\text{kHz}$	-	60	-	W
Total Harmonic Distortion	THD(1)	$P_O = 0.1 \sim 35\text{W}$ , $f = 20 \sim 20\text{kHz}$	-	-	0.2	%
	THD(2)	$P_O = 1\text{W}$ , $f = 1\text{kHz}$ +0dB	-	0.03	-	%
Frequency Response	$f$	$P_O = 1\text{W}$ , -1dB	-	10 ~ 100k	-	Hz
Input Resistance	$r_i$	$P_O = 1\text{W}$ , $f = 1\text{kHz}$	-	52k	-	$\Omega$
Output Noise Voltage	$V_{NO}$	$V_{CC} = \pm 36\text{V}$ , $R_g = 10\text{k}\Omega$	-	0.3	0.5	$\text{mV}_{rms}$
	$V_N$	$V_{CC} = \pm 36\text{V}$	-70	-	+70	mV

### Pin Connection Diagram

