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## NTE1337 Integrated Circuit Module – Hybrid, Audio Power Amp 70 Watt, 2 Power Supplies Required

**Features:**

- Minimum Output Power – 70W
- Dual Power Supply – Single Channel
- Thick Film Hybrid
- Load Shorting Protector

**Absolute Maximum Ratings:**

Supply Voltage,  $V_{CC}$  .....  $\pm 55V$   
 Collector Current,  $I_C$  ..... 7A  
 Operating Case Temperature,  $T_C$  .....  $+85^\circ C$   
 Storage Temperature Range,  $T_{stg}$  .....  $-30^\circ$  to  $+100^\circ C$   
 Thermal Resistance, Junction to Case,  $R_{\theta JC}$  .....  $1.4^\circ C/W$

**Electrical Characteristics:** ( $T_A = +25^\circ C$ ,  $V_{CC} = \pm 42V$ ,  $R_L = 8\Omega$ ,  $R_g = 600\Omega$ ,  $V_G = 26.4dB$ )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	$I_{CCO}$	$V_{CC} = \pm 50V$	-	50	100	mA
Output Power	$P_{O(1)}$	THD = 0.2%, f = 20 to 20kHz	70	-	-	W
	$P_{O(2)}$	THD = 0.2%, f = 1kHz	-	80	-	W
	$P_{O(3)}$	THD = 0.2%, $V_{CC} = \pm 50V$ , f = 1kHz	-	100	-	W
Total Harmonic Distortion	THD <sub>(1)</sub>	$P_O = 1$ to 70W, f = 20 to 20Hz	-	-	0.2	%
	THD <sub>(2)</sub>	$P_O = 1W$ , f = 1kHz	-	0.03	-	%
Frequency Response	f	$P_O = 1W$ , +0dB, -1dB	10 to 100k			Hz
Input Resistance	$r_i$	$P_O = 1W$ , f = 1kHz	-	52	-	k $\Omega$
Output Noise Voltage	$V_{NO}$	$V_{CC} = \pm 50V$ , $R_g = 10k\Omega$	-	0.3	0.5	mV <sub>rms</sub>
Noise Voltage	$V_N$	$V_{CC} = \pm 50V$ , -70	-70	-	70	mV

### Pin Connection Diagram

