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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° 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 ₍₁₎	$P_O = 1$ to 70W, f = 20 to 20Hz	-	-	0.2	%
	THD ₍₂₎	$P_O = 1W$, 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 Ω
Output Noise Voltage	V_{NO}	$V_{CC} = \pm 50V$, $R_g = 10k\Omega$	-	0.3	0.5	mV _{rms}
Noise Voltage	V_N	$V_{CC} = \pm 50V$, -70	-70	-	70	mV

Pin Connection Diagram

