ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089
http://www.nteinc.com

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} . . . . . ±55V
Collector Current, I_C 7A
Operating Case Temperature, T_c . . . . . +85°C
Storage Temperature Range, T_{stg} . . . . . –30° to +100°C
Thermal Resistance, Junction to Case, $R_{\Theta JC}$ . . . . . 1.4°C/W

Electrical Characteristics: (T_A = +25°C, V_{CC} = ±42V, R_L = 8Ω, R_g = 600Ω, V_G = 26.4dB)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	V_{CC} = ±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} = ±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	–	kΩ
Output Noise Voltage	V_{NO}	V_{CC} = ±50V, R_g = 10kΩ	–	0.3	0.5	mV_{rms}
Noise Voltage	V_N	V_{CC} = ±50V, –70	–70	–	70	mV

Pin Connection Diagram