ELECTRONICS, INC.
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NTE7068
Integrated Circuit
Dual Audio Power Amplifier, 13W/Ch

Features:

- High Power: P_{OUT} = 13W/Ch (Typ)
- Low Noise: V_{NO} = 0.14mV_{rms} (Typ)
- Operating Supply Voltage Range: V_{CC} = 10V to 37V

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage, V_{CC} 37V
Peak Output Current, $I_{O(peak)}$ 2.5A
Power Dissipation, P_D 25W
Operating Temperature Range, T_{opr} . . . . . –20° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Electrical Characteristics: (T_A = +25°C, V_{CC} = 28V, R_L = 8Ω, R_g = 600Ω, f = 1kHz unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	V_{IN} = 0	–	50	105	mA
Output Power	$P_{OUT(1)}$	THD = 10%	10	13	–	W
	$P_{OUT(2)}$	THD = 1%	–	10	–	W
Total Harmonic Distortion	THD	P_{OUT} = 2W	–	0.04	0.20	%
Voltage Gain	G_V	V_{OUT} = 0dBm	32.5	34.0	35.5	dB
Input Resistance	R_{IN}		–	30	–	kΩ
Ripple Rejection	R.R.	R_g = 0, f_{ripple} = 100Hz, V_{ripple} = 0dBm	40	50	–	dB
Output Noise Voltage	V_{NO}	R_g = 10kΩ, BW = 20Hz to 20kHz	–	0.14	0.3	mV_{rms}
Crosstalk	C_T	R_g = 10kΩ, V_{OUT} = 0dBm	–	70	–	dB

Pin Connection Diagram
(Front View)