



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: ($T_A = +25^{\circ}C$ 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 $+75^{\circ}C$
Storage Temperature Range, T_{stg}	-55° to $+150^{\circ}C$

Electrical Characteristics: ($T_A = +25^{\circ}C$, $V_{CC} = 28V$, $R_L = 8\Omega$, $R_g = 600\Omega$, $f = 1kHz$ 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	–	k Ω
Ripple Rejection	R.R.	$R_g = 0$, $f_{ripple} = 100Hz$, $V_{ripple} = 0dBm$	40	50	–	dB
Output Noise Voltage	V_{NO}	$R_g = 10k\Omega$, $BW = 20Hz$ to $20kHz$	–	0.14	0.3	mV_{rms}
Crosstalk	C_T	$R_g = 10k\Omega$, $V_{OUT} = 0dBm$	–	70	–	dB

Pin Connection Diagram
(Front View)

