



**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, $T_{opr}$ .....	$-20^{\circ}$ to $+75^{\circ}C$
Storage Temperature Range, $T_{stg}$ .....	$-55^{\circ}$ 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 $\Omega$
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 <sub>rms</sub>
Crosstalk	$C_T$	$R_g = 10k\Omega$ , $V_{OUT} = 0dBm$	–	70	–	dB

**Pin Connection Diagram**  
(Front View)

