



ELECTRONICS, INC.
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NTE7070 Integrated Circuit Dual Audio Power Amplifier, 6W/Ch

Features:

- High Power: $P_{OUT} = 6W/Ch$ (Typ)
- Low Noise: $V_{NO} = 0.14mV_{rms}$ (Typ)
- Operating Supply Voltage Range: $V_{CC} = 10V$ to $30V$

Absolute Maximum Ratings: ($T_A = +25^{\circ}C$ unless otherwise specified)

Supply Voltage, V_{CC}	30V
Peak Output Current, $I_{O(peak)}$	2A
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: ($T_A = +25^{\circ}C$, $V_{CC} = 20V$, $R_L = 8\Omega$, $R_g = 600\Omega$, $f = 1kHz$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Supply Current	I_{CCQ}	$V_{IN} = 0$	–	75	130	mA
Output Power	$P_{OUT(1)}$	THD = 10%	5.0	6.0	–	W
	$P_{OUT(2)}$	THD = 1%	–	4.5	–	W
Total Harmonic Distortion	THD	$P_{OUT} = 2W$	–	0.1	0.6	%
Voltage Gain	G_V	$V_{OUT} = 0dBm$	32.5	34.0	35.5	dB
	G_{VO}		–	60	–	dB
Input Resistance	R_{IN}		–	30	–	k Ω
Ripple Rejection	R.R.	$R_g = 0$, $f_{ripple} = 100Hz$, $V_{ripple} = 0dBm$	44	57	–	dB
Output Noise Voltage	V_{NO}	$R_g = 10k\Omega$, $BW = 20Hz$ to $20kHz$	–	0.14	0.3	mV_{rms}

Pin Connection Diagram
(Front View)

