



ELECTRONICS, INC.
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NTE1160 Integrated Circuit Audio Power Amp, 5.2W

Features:

- $P_O = 5.2W$ /High Output Power $P_O = 5.2W$ Typ.
- Built-In Short Circuit Protection
- Improved Surge Immunity
- Retains “Soft” Audio Tone even when Driven to Output Clipping Levels.
- $A_V = 51.5dB$ /High Gain $A_V = 51.5dB$ Typ.
- T.H.D. = 0.4%/Low Distortion T.H.D. = 0.4% Typ.

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

Supply Voltage, V_{CC1}	20.0V
Supply Voltage, V_{CC2}	17.0V
Supply Current, $I_{CC(peak)}$	2.5A
Power Dissipation, P_D	7.0W
Operating Temperature Range, T_{opt}	-20° to $+75^\circ C$
Storage Temperature Range, T_{atg}	-40° to $+150^\circ C$

Electrical Characteristics: ($T_A = +25^\circ C$, $V_{CC} = 13.2V$, $f = 1kHz$, $R_L = 4\Omega$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	$v_i = 0$	15	28	45	mA
Output Power	P_O	T.H.D. = 10%	4.5	5.2	-	W
Total Harmonic Distortion	T.H.D.	$P_O = 0.5W$	-	0.4	1.0	%
Voltage Gain	A_V	$P_O = 0.5W$	49.0	51.5	52.0	dB
Output Noise Voltage	v_n	$R_G = \infty$	-	1.4	4.0	mV

Pin Connection Diagram
(Front View)

