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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, $T_{opt}$ .....	$-20^\circ$ to $+75^\circ C$
Storage Temperature Range, $T_{atg}$ .....	$-40^\circ$ 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)

