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## NTE1058 Integrated Circuit Audio Power Amp, 4.4 Watts

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

Supply Voltage, $V_{9-2}$ .....	18V
Supply Current, $I_{tot}$ .....	1.2A
Power Dissipation, $P_T$ .....	4.5W
Operating Ambient Temperature, $T_{opr}$ .....	$-20^\circ$ to $+70^\circ\text{C}$
Storage Temperature, $T_{stg}$ .....	$-55^\circ$ to $+150^\circ\text{C}$

**Recommended Operating Characteristics:**

Supply Voltage, $V_{CC}$ .....	13V
Output Power ( $R_L = 4\Omega$ ), $P_O$ .....	4.4W
Voltage Gain, $G_V$ .....	45dB

**Electrical Characteristics:** ( $V_{CC} = 13\text{V}$ ,  $T_A = 25^\circ\text{C}$ , unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Circuit Current	$I_{CQ}$	$V_{IN} = 0$	10	20	50	mA
Output Voltage	$V_O$	$f = 1\text{kHz}$ , $V_{IN} = 10\text{mV}$ , $R_L = 4$	1.25	1.7	2.25	V
Output Power	$P_O$	$f = 1\text{kHz}$ , THD = 10%, $R_L = 4\Omega$	4	4.4	-	W
Total Harmonic Distortion	THD	$f = 1\text{kHz}$ , $P_O = 1\text{W}$ , $R_L = 4\Omega$	-	0.3	1.5	%
Output Noise Voltage	$V_N$	$R_g = 10\text{k}\Omega$ , $R_L = 4\Omega$	-	1	4.5	mV

**Pin Connection Diagram**  
(Front View)

