



ELECTRONICS, INC.
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NTE1240

Integrated Circuit

Audio Power Amp, 5.5W

Features:

- High Output Power and High Gain
- Highly Breakdown-Resistant Against Overloading and Short-Circuits
- Easy-to-handle packaging: 11-lead SIL plastic

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

Supply Voltage, V_{CC}	18V
DC Supply Current, I_{CC}	2.2A
Power Dissipation ($T_A = +75^\circ\text{C}$), P_D	6W
Operating Temperature Range, T_{opr}	-20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CQ}	$V_{in} = 0$	10	28	60	mA
Voltage Gain	G_V	$V_{in} = 5\text{mV}$, $f = 1\text{kHz}$	52	53	54	dB
Power Output	P_O	THD = 10%, $f = 1\text{kHz}$	4.5	5.5	–	W
Total Harmonic Distortion	THD	$P_O = 2\text{W}$, $f = 1\text{kHz}$	–	0.25	1.5	%
Output Noise Voltage	V_{no}	$V_{in} = 0$, $R_g = 10\text{k}\Omega$	–	0.6	4.5	mV

Pin Connection Diagram (Front View)

