ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
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NTE1228
Integrated Circuit
Audio Power Amp, 2.1W

Features:
- AF Output Power
- Sufficient Regulation Under Dry Battery Operation

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Maximum Supply Voltage, V_{CC}max 13V
Allowable Power Dissipation, $P_d$max 1.2W
Allowable Power Dissipation (Note 1), $P_d$max 2.25W
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C

Note 1. With 50 x 50mm^2 printed board for radiator.

Recommended Operation Condition: (T_A = +25°C unless otherwise specified)

Recommended Supply Voltage, V_{CC} 9V
Load Resistance, R_L 4,8Ω

Electrical Characteristics: (T_A = +25°C, V_{CC} = 9V, R_L = 4Ω, f = 1kHz unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		–	15	25	mA
Voltage Gain	VG	Open Loop	–	70	–	dB
		At Appointed Circuit	42	45	48	dB
Output Power	P_O	THD = 10%, R_L = 4Ω	1.3	2.1	–	W
		THD = 10%, R_L = 8Ω	–	1.4	–	W
Total Harmonic Distortion	THD	P_O = 250mW	–	0.5	1.5	%
Input Resistance	r_i		12k	20k	–	Ω
Output Noise Voltage	V_{NO}	R_g = 10kΩ	–	–	3	mV
		R_g = 0	–	–	1.0	mV

Pin Connection Diagram