ELECTRONICS, INC.
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NTE1463
Integrated Circuit
AF Power Amp for Tape Recorder

Features:
- AF Output Power: 2.7W/3.2Ω, or 2.3W/4Ω
- Small op Noise by Muting CRT
- High Ripple Reduction
- Good Supply Voltage Characteristics
- No Switching Distortion at High Frequency

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

Supply Voltage, V_{CC}
- Quiescent 13V
- Operating 11V

Allowable Power Distortion, $P_{Dmax(1)}$ 1.2W
Allowable Power Distortion (Note 1), $P_{Dmax(2)}$ 2.25W
Current at Pin 11 ($R_L \geq 330\Omega$), I_{11} 30mA
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C

Note 1. 50 x 50 x 1.5mm^3 printed board used.

Recommended Operating Characteristics: (T_A = +25°C unless otherwise specified)

Supply Voltage, V_{CC} 9V
Load Resistance, R_L . . . . . 3.2 to 8.0Ω

Electrical Characteristics: (T_A = +25°C, V_{CC} = 9V, R_L = 3.2Ω, f = 1kHz, R_g = 600Ω unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		–	15	25	mA
Voltage Gain	$V_{G(1)}$	Open Loop	–	68	–	dB
	$V_{G(2)}$	Closed Loop	42	45	48	dB
Output Power	P_O	R_L = 3.2Ω, THD = 10%	2.1	2.7	–	W
		R_L = 4Ω, THD = 10%	1.7	2.3	–	W
Input Resistance	r_i		12	20	–	kΩ
Total Harmonic Distortion	THD	P_O = 300mW	–	–	2.0	%
Output Noise Voltage	$V_{NO(1)}$	R_g = 10kΩ	–	–	2.5	mV
	$V_{NO(2)}$	R_g = 0Ω	–	–	0.8	mV

Pin Connection Diagram



