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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 ≥ 330Ω), 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 1.5mm³ 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

