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NTE1344 Integrated Circuit 2 Channel 25W min. AF Power Amplifier

Features:

- Small Shock Noise Because of Direct Coupling Emitter Feedback

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

Supply Voltage, V_{CC} max 70V
 Operating Case Temperature, T_C 85°C
 Storage Temperature, T_{stg} -30 to +100°C
 Allowable Load Shorting Time, t_s ($V_{CC} = 49V, P_O = 25W, R_L = 8\Omega, f = 50\text{Hz}$) 2 sec

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC} 49V
 Load Resistance, R_L 8Ω

Electrical Characteristics: ($T_A = 25^\circ\text{C}, V_{CC} = 49V, R_L = 8\Omega, R_g = 600\Omega, V_G = 40\text{dB}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	$V_{CC} = 58V$	-	50	120	mA
Output Power	$P_{O(1)}$	THD = 1%, $f = 1\text{kHz}$	25	-	-	W
	$P_{O(2)}$	THD = 1%, $f = 30\text{Hz} \sim 20\text{kHz}$	13	-	-	W
Distortion	THD	$P_O = 0.1W, f = 1\text{kHz}$	-	-	0.3	%
Frequency Response	f_L, f_H	$P_O = 0.1W$	20 ~ 100k			H_z
Input Resistance	r_i		-	110	-	kΩ
Output Noise Voltage	V_{NO}	$V_{CC} = 58V, R_g = 10k\Omega$	-	-	0.8	mV _{rms}

Pin Connection Diagram

