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NTE1327

Integrated Circuit

Module, Hybrid, Audio Power Amp

35 Watt, 2 Power Supplies Required

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

Supply Voltage (V_{5-24}), V_{CC} $\pm 43\text{V}$
 Operating Temperature, T_C 85°C
 Storage Temperature Range, T_{stg} -30 to $+100^\circ\text{C}$
 Available Load Shorting Time ($V_{CC} = \pm 29\text{V}$, $f = 50\text{Hz}$, $V_O = 14.2\text{V}/R_L$, t_s 2sec

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

Supply Voltage, V_{CC} $\pm 30\text{V}$
 Load Resistance, R_L 8Ω

Electrical Characteristics: ($T_A = 25^\circ\text{C}$, $V_{CC} = \pm 30\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 26.4\text{dB}$)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CCO}	$V_{CC} = \pm 36\text{V}$	–	50	100	mA
Output Power	$P_{O(1)}$	THD = 0.2%, $f = 20 \sim 20\text{kHz}$	35	–	–	W
	$P_{O(2)}$	THD = 0.2%, $f = 1\text{kHz}$	–	42	–	W
	$P_{O(3)}$	THD = 0.2%, $V_{CC} = \pm 36\text{V}$, $f = 1\text{kHz}$	–	60	–	W
Total Harmonic Distortion	THD(1)	$P_O = 0.1 \sim 35\text{W}$, $f = 20 \sim 20\text{kHz}$	–	–	0.2	%
	THD(2)	$P_O = 1\text{W}$, $f = 1\text{kHz}$ +0dB	–	0.03	–	%
Frequency Response	f	$P_O = 1\text{W}$, -1dB	–	10 ~ 100k	–	Hz
Input Resistance	r_i	$P_O = 1\text{W}$, $f = 1\text{kHz}$	–	52k	–	Ω
Output Noise Voltage	V_{NO}	$V_{CC} = \pm 36\text{V}$, $R_g = 10\text{k}\Omega$	–	0.3	0.5	mV_{rms}
	V_N	$V_{CC} = \pm 36\text{V}$	–70	–	+70	mV

Pin Connection Diagram

