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NTE1328

Integrated Circuit

Module – Hybrid, Audio Power Amp50W

2 Power Supplies Required

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

Maximum Supply Voltage, $V_{CC\max}$ $\pm 50\text{V}$
 Collector Current, $I_{C\max}$ 7A
 Operating Case Temperature, T_C $+85^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+100^\circ\text{C}$
 Thermal Resistance, Junction to Case, $R_{\theta JC}$ 1.7°C/W

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

Recommended Operating Voltage, V_{CC} $\pm 35\text{V}$
 Load Resistance, R_L 8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 35\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 26.4\text{dB}$ unless otherwise specified)

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

Pin Connection Diagram
(Front View)

