

NTE1320
Integrated Circuit
Module, Hybrid, Audio Power Amp,
25W, 2 Power Supplies Required

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

Supply Voltage, V_{CCmax}	$\pm 37\text{V}$
Collector Current, I_{Cmax}	5A
Operating Junction Temperature, T_J	$+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-30° to $+105^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC}	2.4°C/W
Allowable Load Shorting Time ($V_{CC} = \pm 25\text{V}$, $f = 50\text{Hz}$, $R_L = 8\Omega$, $P_O = 25\text{W}$), t_s	2sec

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

Supply Voltage, V_{CC}	$\pm 25\text{V}$
Load Resistance, R_L	8Ω

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	$V_{CC} = \pm 30\text{V}$	–	40	80	mA
Output Power	P_O	THD = 0.1%, $f = 20\text{Hz}$ to 20kHz	25	–	–	W
Total Harmonic Distortion	THD	$P_O = 1\text{W}$ to 25W , $f = 20\text{Hz}$ to 20kHz	–	–	0.1	%
		$P_O = 1\text{W}$, $f = 1\text{kHz}$	–	0.02	–	%

Pin Connection Diagram
(Front View)

