

**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, $T_{stg}$ .....	$-30^\circ$ to $+105^\circ\text{C}$
Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....	$2.4^\circ\text{C/W}$
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, $R_L$ .....	$8\Omega$

**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 $20\text{kHz}$	25	–	–	W
Total Harmonic Distortion	THD	$P_O = 1\text{W}$ to $25\text{W}$ , $f = 20\text{Hz}$ to $20\text{kHz}$	–	–	0.1	%
		$P_O = 1\text{W}$ , $f = 1\text{kHz}$	–	0.02	–	%

**Pin Connection Diagram**  
(Front View)

