

**NTE1345**  
**Integrated Circuit**  
**Module, Hybrid, Dual Audio Power Amp,**  
**30W/Ch, 2 Power Supplies Required**

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

Supply Voltage, $V_{CCmax}$ .....	$\pm 41\text{V}$
Substrate Temperature, $T_C$ .....	$+105^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-30^\circ$ to $+105^\circ\text{C}$
Turn-On Time, $t_s$ ( $V_{CC} = \pm 28\text{V}$ , $P_O = 30\text{W}$ , $R_L = 8\Omega$ , $f = 50\text{Hz}$ ) .....	2sec

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

Supply Voltage, $V_{CC}$ .....	$\pm 28\text{V}$
Load Resistance, $R_L$ .....	$8\Omega$

**Electrical Characteristics:** ( $T_A = 25^\circ\text{C}$ ,  $V_{CC} = \pm 28\text{V}$ ,  $R_L = 8\Omega$ ,  $R_g = 600\Omega$ ,  $V_G = 40\text{dB}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Idle Current	$I_{CCO}$	$V_{CC} = \pm 34\text{V}$	20	40	120	mA
Power Out	$P_O$	THD = 0.1%, $f = 20\text{Hz}$ to $20\text{kHz}$	30	-	-	W
		$V_{CC} = \pm 25\text{V}$ , THD = 0.2%, $R_L = 4\Omega$	40	-	-	W
Total Harmonic Distortion	THD	$P_O = 1.0\text{W}$	-	-	0.1	%
Breakpoints	$f_L, f_H$	$P_O = 1.0\text{W}$	10 to 100k			Hz
Source Impedance	$r_i$	$P_O = 1.0\text{W}$	-	32	-	k $\Omega$
Input Noise Voltage	$V_{NO}$	$V_{CC} = \pm 34\text{V}$	-	-	1.2	mV <sub>rms</sub>
Transient Noise Voltage	$V_N$	$V_{CC} = \pm 34\text{V}$	-70	0	70	mV

**Pin Connection Diagram**  
(Front View)

16	Rt Ch Input
15	Rt Ch Feedback
14	GND
13	Rt Ch Bias
12	(-) V <sub>CC</sub> 2
11	Rt Ch Feedback
10	Rt Ch Output
9	(+) V <sub>CC</sub> 2
8	(+) V <sub>CC</sub> 1
7	Lt Ch Output
6	Lt Ch Feedback
5	(-) V <sub>CC</sub> 1
4	Lt Ch Bias
3	GND
2	Lt Ch Feedback
1	Lt Ch Input

