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## NTE1329 Integrated Circuit Module – Hybrid, Audio Power Amp 20 Watt, 2 Power Supplies Required

**Features:**

- Minimum Output Power – 20W
- Dual Channel – Single Power Supply
- Thick Film Hybrid
- Small Shock Noise

**Absolute Maximum Ratings:**

Supply Voltage,  $V_{CC}$  ..... 63V  
 Operating Case Temperature,  $T_c$  ..... +85°C  
 Storage Temperature Range,  $T_{stg}$  ..... -30° to +100°C  
 Allowable Load Shorting Time ( $f = 50\text{Hz}$ ),  $t_s$  ..... 2sec.

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = 44\text{V}$ ,  $R_L = 8\Omega$ ,  $R_g = 600\Omega$ ,  $V_G = 40\text{dB}$ )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	$I_{CCO}$	$V_{CC} = 53\text{V}$	20	60	120	mA
Output Power	$P_{O(1)}$	THD = 1.0%, $f = 1\text{kHz}$	20	-	-	W
	$P_{O(2)}$	THD = 1.0%, $f = 30$ to $20\text{kHz}$	10	-	-	W
Total Harmonic Distortion	THD	$P_O = 0.1\text{W}$ , $f = 1\text{kHz}$	-	-	0.3	%
Frequency Response	$f$	$P_O = 1\text{W}$ +0dB -3dB	20 to 100K			Hz
Input Resistance	$r_i$	$P_O = 0.1\text{W}$	-	110	-	k $\Omega$
Output Noise Voltage	$V_{NO}$	$V_{CC} = 53\text{V}$ , $R_g = 10\text{k}\Omega$	-	-	0.8	mV <sub>rms</sub>

### Pin Connection Diagram

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

