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## NTE1344 Integrated Circuit 2 Channel 25W min. AF Power Amplifier

### **Features:**

- Small Shock Noise Because of Direct Coupling Emitter Feedback

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

Supply Voltage,  $V_{CC}$  max ..... 70V  
Operating Case Temperature,  $T_C$  .....  $85^\circ\text{C}$   
Storage Temperature,  $T_{stg}$  .....  $-30$  to  $+100^\circ\text{C}$   
Allowable Load Shorting Time,  $t_s$  ( $V_{CC} = 49\text{V}$ ,  $P_O = 25\text{W}$   $R_L = 8\Omega$ ,  $f = 50\text{Hz}$ ) ..... 2 sec

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

Supply Voltage,  $V_{CC}$  ..... 49V  
Load Resistance,  $R_L$  .....  $8\Omega$

### **Electrical Characteristics:** ( $T_A = 25^\circ\text{C}$ , $V_{CC} = 49\text{V}$ , $R_L = 8\Omega$ , $R_g = 600\Omega$ , $V_G = 40\text{dB}$ )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	$I_{CCO}$	$V_{CC} = 58\text{V}$	–	50	120	mA
Output Power	$P_{O(1)}$	THD = 1%, $f = 1\text{kHz}$	25	–	–	W
	$P_{O(2)}$	THD = 1%, $f = 30\text{Hz} \sim 20\text{kHz}$	13	–	–	W
Distortion	THD	$P_O = 0.1\text{W}$ , $f = 1\text{kHz}$	–	–	0.3	%
Frequency Response	$f_L, f_H$	$P_O = 0.1\text{W}$	20 ~ 100k			$H_z$
Input Resistance	$r_i$		–	110	–	k $\Omega$
Output Noise Voltage	$V_{NO}$	$V_{CC} = 58\text{V}$ , $R_g = 10\text{k}\Omega$	–	–	0.8	mV <sub>rms</sub>

### Pin Connection Diagram

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

