



**ELECTRONICS, INC.**  
 44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089

## NTE1343 Integrated Circuit Module, Hybrid, Dual Audio Power Amp, 10W/Ch

**Applications:**

- Designed for Outdoor Stereo and Radio Cassette Tape Recorder Use.

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

Supply Voltage,  $V_{CCmax}$  ..... 50V  
 Operating Case Temperature,  $T_C$  .....  $-20^\circ$  to  $+105^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-20^\circ$  to  $+125^\circ\text{C}$   
 Turn-On Time ( $V_{CC} = 31\text{V}$ ,  $R_L = 4\Omega$ ,  $P_O = 10\text{W}$ ,  $f = 1\text{kHz}$ ),  $t_s$  ..... 2sec

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

Supply Voltage,  $V_{CC}$  ..... 31V  
 Load Resistance,  $R_L$  .....  $4\Omega$

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = 31\text{V}$ ,  $R_L = 4\Omega$ ,  $R_g = 600\Omega$ ,  $V_G = 40\text{dB}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Idle Current	$I_{CCO}$	$V_{CC} = 36\text{V}$	–	60	120	mA
Power Output	$P_O$	$V_{CC} = 13.2\text{V}$ , THD = 10%, $f = 1\text{kHz}$	5.0	5.5	–	W
		THD = 10%, $f = 1\text{kHz}$	10	11.4	–	W
		THD = 1%, $f = 70\text{Hz}$ to $15\text{kHz}$	–	20	–	W
Total Harmonic Distortion	THD	$V_{CC} = 9\text{V}$ , $P_O = 0.1\text{W}$ , $f = 1\text{kHz}$	–	0.5	0.8	%
		$P_O = 0.1\text{W}$ , $f = 1\text{kHz}$	–	0.07	–	%
Frequency Range	$f_L, f_H$	$V_{CC} = 26.4\text{V}$ , $P_O = 0.1\text{W}$ , +0dB	40 to 50k			Hz
Input Resistance	$r_i$	$V_{CC} = 26.4\text{V}$ , $P_O = 0.1\text{W}$	–	21	–	$k\Omega$
Noise Voltage	$V_{NO}$	$V_{CC} = 36\text{V}$	–	–	0.8	$\text{mV}_{rms}$

**Pin Connection Diagram**  
(Front View)

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

