

NTE1359
Integrated Circuit
Module, Hybrid, Dual Audio Power Amp,
22W/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° to $+105^\circ\text{C}$
Storage Temperature Range, T_{stg}	-20° to $+125^\circ\text{C}$
Turn-On Time ($V_{CC} = 31\text{V}$, $R_L = 4\Omega$, $P_O = 22\text{W}$, $f = 1\text{kHz}$), 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 Ω

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%, $f = 1\text{kHz}$	22	25	–	W
		THD = 1%, $f = 70\text{Hz}$ to 15kHz	–	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 Ω
Noise Voltage	V_{NO}	$V_{CC} = 36\text{V}$	–	–	0.8	mV _{rms}

Pin Connection Diagram
(Front View)

15	Input Rt Ch
14	Decouple
13	GND
12	GND
11	Output Rt Ch
10	Feedback Rt Ch
9	Ripple Filter
8	GND
7	V _{CC}
6	Feedback Lt Ch
5	Output Lt Ch
4	GND
3	GND
2	Decouple
1	Input Lt Ch

