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NTE1028 Integrated Circuit Module, Hybrid, Audio Power Amp 20W

Description:

The NTE1028 is a 20 Watt Audio Power Amplifier which requires 2 power supplies.

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

Maximum Supply Voltage, V_{CCmax}	$\pm 32\text{V}$
Operating Case Temperature, T_C	$+85^\circ\text{C}$
Storage Temperature Range, T_{stg}	-30° to $+100^\circ\text{C}$
Available Load Shorting Time, t_s ($V_{CC} = \pm 26\text{V}$, $f = 50\text{Hz}$, $V_O = 12.7\text{V}/R_L$)	2Sec

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

Recommended Supply Voltage, V_{CC}	$\pm 22\text{V}$
Load Resistance, R_L	8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 22\text{V}$, $R_L = 8\Omega$, $V_G = 26.4\text{dB}$, $R_g = 600\Omega$, $f = 1\text{kHz}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Power	P_O	$f = 20\text{Hz}$ to 20kHz , THD = 0.3%	20	-	-	-
		THD = 0.3%	-	23	-	W
		THD = 0.3%, $V_{CC} = \pm 26\text{V}$	-	30	-	-
Total Harmonic Distortion	THD	$f = 20\text{Hz}$ to 20kHz , $P_O = 0.05$ to 20W	-	-	0.3	-
		$P_O = 1\text{W}$	-	0.03	-	%
High Level Cut-Off Frequency	f_{CH}	$P_O = 1\text{W}$, -1dB	100	-	-	kHz
Low Level Cut-Off Frequency	f_{CL}	$P_O = 1\text{W}$, -1dB	-	-	10	Hz
Input Resistance	r_i	$P_O = 1\text{W}$	-	52	-	$k\Omega$
Output Noise Voltage	V_{NO}	$V_{CC} = \pm 26\text{V}$, $R_g = 10k\Omega$	-	0.3	0.5	mV_{rms}
Supply Current	I_{CCO}	$V_{CC} = \pm 26\text{V}$	10	-	50	mA
	ΔV_N	$V_{CC} = \pm 26\text{V}$	-50	-	+50	mV

Pin Connection Diagram
(Front View)

