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NTE1140 & NTE1141 Integrated Circuit Audio Power Amplifier

Description:

The NTE1140 and NTE1141 are integrated circuits in an 8-Lead DIP type package designed for high power and low noise audio power amplifier applications, and is suitable for use in car radio sets and small stereo sets.

Features:

- NTE1140: $P_O = 2.0W$
- NTE1141: $P_O = 1.5W$

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

Supply Voltage (1), V_{CC1}	20V
Supply Voltage (2), V_{CC2}	17V
Supply Current, $I_{CC(peak)}$	1A
Power Dissipation (Note 1), P_D	1.9W
Operating Temperature Range, T_{opr}	-20° to $+75^\circ C$
Storage Temperature Range, T_{stg}	-40° to $+150^\circ C$

Note 1. 30mm x 30mm x 1mm heat sink.

Electrical Characteristics: ($T_A = +25^\circ C$, $V_{CC} = 13.2V$, $f = 1kHz$, $R_L = 8\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	$V_i = 0$	8	12	16	mA
Output Power NTE1140	P_O	THD = 10%	1.5	2.0	-	W
NTE1141			1.2	1.5	-	W
Total Harmonic Distortion	THD	$P_O = 500mW$	-	0.5	1.5	%
Audio Gain	A_v	$P_O = 500mW$	51	-	56	dB
Noise Voltage	v_n	$R_G = 0\Omega$	-	0.4	0.8	mV

Pin Connection Diagram

