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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, $T_{opr}$ .....	$-20^{\circ}$ to $+75^{\circ}C$
Storage Temperature Range, $T_{stg}$ .....	$-40^{\circ}$ 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

