



ELECTRONICS, INC.

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NTE1375 Integrated Circuit Audio Power Amp for Car Radio, 5.8W

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

Supply Voltage, V_{CC}	18V
V_C Peak	40V
Power Dissipation, P_D	6.5W
Operating Junction Temperature, T_J	$+150^\circ\text{C}$
Operating Temperature Range, T_{opr}	-20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg}	-30° to $+125^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 13.2\text{V}$, $R_L = 4\Omega$, $f = 1\text{kHz}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_q	$V_{IN} = 0$	–	35	80	mA
Voltage Gain	G_{VE}	$R_{NF} = 68\Omega$	52	55	58	dB
Output Power	P_{OUT}	THD = 10%	5.0	5.8	–	W
Total Harmonic Distortion	THD	$P_{OUT} = 0.5\text{W}$	–	003	1.5	%
Input Noise Voltage	V_{NO}	$R_g = 10\text{k}$	–	1.0	–	mV
Input Resistance	R_{in}	$f = 1\text{kHz}$	–	180	–	$\text{k}\Omega$
Ripple Rejection	RR	$f_{RR} = 100\text{Hz}$, -10dB	–	40	–	dB

Pin Connection Diagram
(Front View)

