

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°C
Operating Temperature Range, T_{opr}	-20° to +75°C
Storage Temperature Range, T_{stg}	-30° to +125°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	-	kΩ
Ripple Rejection	RR	$f_{RR} = 100\text{Hz}$, -10dB	-	40	-	dB

Pin Connection Diagram
(Front View)

