ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089
http://www.nteinc.com

NTE7204
Integrated Circuit
2 Channel Power Ampifier

Description:

The NTE7204 is a Monolithic Linear Integrated Circuit in a 13 Pin–Lead type package designed for use as a 2–Channel Power Amplifier for Radio–Cassette Recorders.

Features:

- On–chip Thermal Shutdown Circuit
- On–chip Standby Switch

Absolute Maximum Ratings: @ T_A = +25°C

Maximum Supply Voltage, $V_{CC}{}^{max}$	18V
Allowable Power Dissipation, Pd^{max} With 100x100x1.5mm^3 Al heat sink	11.4W
Operating Temperature, Topr	–20°to+75°C
Storage Temperature, Tstg	–40°to+150°C

Operating Conditions: @ T_A = +25°C

Parameter	Symbol	Test Conditions	Ratings	Unit
Recommended Supply Voltage	V_{CC}		9,12	V
Recommended Load Resistance	R_L		3.2	Ω
Operating Voltage Range	$V_{CC}{}^{op}$		4.2 to 16	V

Operating Characteristics: @ T_A = +25°C, V_{CC}=9V, f= 1kHz, Rg=600Ω, R_L =3.2Ω, VG=50dB

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	Icco		10	20	40	mA
Voltage Gain	VG		47	49	51	dB
Output Power	P_O1	THD=10%	2.2	2.9		W
	P_O2	THD=10%, V_{CC}=12V		4.6		W
Total Harmonic Distortion	THD	V_O=2V		0.3	1	%
Input Resistance	ri		20	30		kΩ

Pin Connection Diagram
(Front View)