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NTE1180 Integrated Circuit Audio Power Amplifier, 1.5W

Description:

The NTE1180 is a linear integrated circuit with attached heat sink pin. The device is a 1.5W AF power amplifier. The device is suitable for FM/AM radio, cassette tape recorder, portable player or inter-phone use.

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

Supply Voltage, V_{CC}	11V
Power Dissipation, P_D	1.2W
Operating Temperature Range, T_{opr}	-20 to $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40 to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 7.5\text{V}$, $R_L = 4\Omega$, $f = 1\text{kHz}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Circuit Current	I_{CCO}		-	15	25	mA
Voltage Gain	V_G		42	45	48	dB
Output Power	P_O	THD = 10%	0.95	1.5	-	W
Total Harmonic Distortion	THD	$P_O = 250\text{mW}$	-	0.5	1.5	%
Input Resistance	R_i		12	20	-	k Ω
Noise Output Voltage	V_{NO}	$R_g = 10\text{k}$	-	-	3	mV
		$R_g = 0$	-	-	1.0	mV

Pin Connection Diagram
(Front View)

