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NTE1477
Integrated Circuit
2 Channel Amplifier for Headphone Use

Description:

The NTE1477 is a integrated circuit in a 14–Lead DIP type package suitable for use as a headphone driving amplifier in the output amplifier of a tape deck or a tuner.

Features:

- Wide Operating Voltage Range
- Small Pop Noise by Means of Emitter Feedback
- Dual Amplifier Involved–Few Peripheral Parts
- Small Output Noise Voltage

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Maximum Supply Voltage, V_{CC}max 22V
Maximum Supply Current (only Pin2: flow–in; Pin7, 8: flow–out), I_{CP} 0.5A
Allowable Power Dissipation, $P_D$max 1.05W
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C

Recommended Operating Condition: (T_A = 25°±C)

Recommended Supply Voltage, V_{CC} 14V
Load Resistance, R_L . . . . . 8Ω or 200Ω

Operating Characteristics: (T_A = +25°C, V_{CC} = 14V, R_L = 8Ω f = 1kHz, R_g = 600Ω unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		6	8	15	mA
Voltage Gain	V_G	V_O = 77.5mV	7	9	11	dB
Output Voltage	V_O	THD = 10%	0.58	0.68	–	V
Total Harmonic Distortion	THD	V_O = 0.1V	–	0.5	1.0	%
Input Resistance	r_i	V_O = 0.2V	20k	30k	40k	Ω
Output Noise Voltage	V_{NO}	R_g = 1kΩ, filter: 15 to 30kHz	–	6	18	μV
Channel Separation		R_g = 1kΩ	–50	–68	–	dB
Gain Difference			–	–	1	dB

Pin Connection Diagram