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NTE1052 Integrated Circuit Low Noise Preamp

Description:

The NTE1052 is a silicon monolithic preamplifier in a 7-Lead SIP type package intended for a variety of applications requiring low noise, high gain, high output voltage and extremely stable operating characteristics over a wide range of supply voltage and temperature. Typical applications include car stereos, tape recorders, etc.

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

Supply Voltage, V_{CC} 15V
Power Dissipation, P_D 200mW
Operating Temperature Range, T_{opr} -20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg} -40° to $+125^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 7\text{V}$, $f = 1\text{kHz}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}		1.0	1.35	1.7	mA
Voltage Gain	A_{vo}	$R_L = 22\text{k}\Omega$	67	71	–	dB
Maximum Output Voltage	V_{OM}	NAB, $R_L = 22\text{k}\Omega$	1.2	1.5	–	V
Output Noise Voltage	V_{NO}	NAB, $R_G = 2.2\text{k}\Omega$	–	1.4	2.0	μV

Pin Connection Diagram
(Front View)

