

NTE1523 Integrated Circuit Dual, Low Noise Preamp

Features:

- General-Purpose Pre-Amplifier
- Low Noise Dual Pre-Amplifier
- Low Noise $1.2\mu V_{rms}$ Equivalent Input Noise
- Channel Separation 55dB (Min)
- Operating Supply Voltage Range: $V_{CC} = 6V$ to $15V$

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

Supply Voltage, V_{CC} 15V
 Power Dissipation, P_D 250mW
 Operating Temperature Range, T_{opr} -30° to $+75^\circ C$
 Storage Temperature Range, T_{stg} -55° to $+125^\circ C$

Electrical Characteristics: ($V_{CC} = 8V$, $R_L = 10k\Omega$, $R_g = 600\Omega$, $f = 1kHz$, $T_A = +25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	$V_{IN} = 0$	–	7.5	14	mA
Voltage Gain (Open Loop)	G_{VO}	$R_f = 0/C_f = 100\mu F$	62	70	–	dB
Maximum Output Voltage	V_{OM}	THD = 0.5%	1.2	1.95	–	V_{rms}
Input Resistance	R_{IN}		–	50	–	$k\Omega$
Equivalent Input Noise Voltage	V_{NI}	$R_g = 2.2k\Omega$	–	1.2	2.7	μV_{rms}
Cross Talk	CT	$f = 10kHz$, $R_g = 2.2k\Omega$	–55	–65	–	dB

Pin Connection Diagram (Front View)

