ELECTRONICS, INC.
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NTE1523
Integrated Circuit
Dual, Low Noise Preamp

Features:

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

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

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

Electrical Characteristics: (V_{CC} = 8V, R_L = 10kΩ, R_g = 600Ω, f = 1kHz, T_A = +25°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 = 100μF	62	70	–	dB
Maximum Output Voltage	V_{OM}	THD = 0.5%	1.2	1.95	–	V_{rms}
Input Resistance	R_{IN}		–	50	–	kΩ
Equivalent Input Noise Voltage	V_{NI}	R_g = 2.2kΩ	–	1.2	2.7	μV_{rms}
Cross Talk	CT	f = 10kHz, R_g = 2.2kΩ	–55	–65	–	dB

Pin Connection Diagram
(Front View)