ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089

NTE1022
Integrated Circuit
4–Channel Stereo Decoder

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

Supply Voltage, V_{CC} 25V
Power Dissipation, P_D 750mW
Derate Above 25°C . . . . . 6mW/°C
Operating Temperature Range, T_{opr} . . . . . –30° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

Electrical Characteristics: (V_{CC} = 15V, f = 1kHz, R_a to R_d = ∞, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions			Typ	Max	Unit
Supply Current	I_{CC}	V_{CC} = 15V		–	16	20	mA
		V_{CC} = 8V		–	10	–	mA
Recommended Bias Resistance	R_B			47	–	680	kΩ
Input Impedance	Z_i			–	3	–	MΩ
Output Impedance	Z_o			–	7.2	9.0	kΩ
Voltage Gain	G_V	V_{CC} = 8V to 18V		8.5	10.0	11.5	dB
Total Harmonic Distortion	THD	V_{IN} = 100mV$_{rms}$	V_{CC} = 15V	–	–	0.1	%
		V_{IN} = 300mV$_{rms}$	V_{CC} = 15V	–	–	0.3	%
			V_{CC} = 8V	–	–	1.0	%
		$R_a = R_b$ = 18kΩ, $R_c = R_d$ = 3kΩ, V_{IN} = 300mV		–	–	0.5	%
Input Noise Voltage	V_{IN}(Max)	V_{CC} = 15V	THD = 1%	0.8	1.0	–	V$_{rms}$
		V_{CC} = 8V		–	0.5	–	V$_{rms}$
Output Noise Voltage	V_{NO}	R_S = 220kΩ, R_B = 180kΩ, BW = 30kHz		–	–	0.1	mV$_{rms}$

Pin Connection Diagram