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NTE2000
Integrated Circuit
Dolby B Type Noise Reduction System

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

Supply Voltage, V_{CC} 16V
Total Power Dissipation, P_T 600mW
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

Electrical Characteristics: (V_{CC} = 12V, f = 20Hz to 20kHz, T_A = +25°C, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Operating Voltage	V_{opr}		10	–	15	V
Supply Current	I_{CC}		–	20	30	mA
Voltage Gain	G_V	f = 1kHz (2 ~ 5, 15 ~ 12)	±18.5	20	21.5	dB
		(5 ~ 8, 12 ~ 9)	–	0	–	
Total Harmonic Distortion	THD	f = 1kHz 0dB 8, 9	–	0.08	0.3	%
Output Voltage	$V_{O(Max)}$	f = 1kHz, THD ≤ 1.0%, R_L = 1kΩ 8, 9	2.5	3.1	–	V_{rms}
Signal–to–Noise Ratio	S/N	R_g = 3.3kΩ Encode	73	80	0	dB
		2, 15 Decode	–	90	–	
Back to Back Frquency Response	BB	f = 20Hz to 20kHz	–1.5	0	+1.5	dB
Crosstalk	CT	f = 1kHz	–	63	–	dB
	RRR	f = 100/120Hz	–	40	–	dB
Output Resistance	R_{out}		–	10	–	Ω
			–	10	–	Ω
			–	2.7	–	kΩ

Pin Connection Diagram