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

NTE1792
Integrated Circuit
Dual Attenuator

Description:

The NTE1792 is a silicon monolithic integrated circuit in a 9–Lead SIP package designed for sound control applications.

Features:

- Two separate attenuators
- The characteristic control curve is linear against logarithmic output.
- Channel Separation: 64dB MIN
- Typical Application: Sound MPX attenuator for TV, Radio and mobile receiver.

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

Supply Voltage, V_{CC}
- Minimum 0V
- Maximum 15V

Signal Input Voltage at Pin4 and Pin6, V_{in} . . . . . $3V_{p-p}$

Control Input Voltage at Pin2 and Pin8, V_{cont}
- Minimum 0V
- Maximum 15V

Power Dissipation (T_S = +75°C), P_D 350mW

Operating Temperature Range, T_{opr} . . . . . –20° to +75°C

Storage Temperature Range, T_{stg} . . . . . –40° to +125°C

Electrical Characteristics: (V_{CC} = 12V, T_A = +25°C, f = 1kHz unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Voltage	V_{CC}		8.0	12.0	14.4	V
Supply Current	I_{CC}	No Signal	8.0	10.5	16.0	mA
Relative Output	A_V	V_{cont} = 1V, V_{in} = 500mV_{rms}	–2	0	+2	dB
Channel Separation	S_{ep}	V_{cont} =5V, V_{in} = 500mV_{rms}	64	70	–	dB
Total Harmonic Distortion	T.H.D.	V_{cont} = 5V, V_{in} = 500mV_{rms}	–	0.5	1.0	%
Power Source Noise Rejection	R.R.	H_{um} f = 60Hz, H_{um} Level = $1V_{p-p}$	30	–	–	dB

Electrical Characteristics (Cont'd): (V_{CC} = 12V, T_A = +25°C, f = 1kHz unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage 1	ATT_1	V_{cont} = 5V, V_{in} = 500mV_{rms}	–1	0	+1	dB
Output Voltage 2	ATT_2	V_{cont} = 5V, V_{in} = 500mV_{rms}	–34	–30	–26	dB
Output Voltage 3	ATT_3	V_{cont} = 5V, V_{in} = 500mV_{rms}	–	–77	–71	dB
Input Resistance	R_i	f = 1kHz	12	–	24	kΩ
Output Resistance	R_o	f = 1kHz	200	–	450	Ω

Pin Connection Diagram