

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: ($T_A = +25^\circ\text{C}$ 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 ($T_S = +75^\circ\text{C}$), P_D 350mW

Operating Temperature Range, T_{opr} -20° to $+75^\circ\text{C}$

Storage Temperature Range, T_{stg} -40° to $+125^\circ\text{C}$

Electrical Characteristics: ($V_{CC} = 12\text{V}$, $T_A = +25^\circ\text{C}$, $f = 1\text{kHz}$ 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	$V_{cont} = 1\text{V}$, $V_{in} = 500\text{mV}_{rms}$	-2	0	+2	dB
Channel Separation	S_{ep}	$V_{cont} = 5\text{V}$, $V_{in} = 500\text{mV}_{rms}$	64	70	-	dB
Total Harmonic Distortion	T.H.D.	$V_{cont} = 5\text{V}$, $V_{in} = 500\text{mV}_{rms}$	-	0.5	1.0	%
Power Source Noise Rejection	R.R.	$H_{um} f = 60\text{Hz}$, $H_{um} \text{ Level} = 1\text{V}_{p-p}$	30	-	-	dB

