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NTE1543 Integrated Circuit FM Noise Suppressor

Features:

- Less external components
- Low distortion and high signal to noise ratio
- Wide working supply voltage: 8V to 15V
- Wide working temperature range: -30° to 70°C

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

DC Supply Voltage, V_{CC} 16V
 Power Dissipation ($T_A = +70^\circ\text{C}$), P_D 420mW
 Operating Temperature Range, T_{opr} -30° to +70°C
 Storage Temperature Range, T_{stg} -55° to +125°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 12.4\text{V}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Voltage Gain	G_V	Pin 1 Input: $f = 1\text{kHz}$, $V_{in} = 120\text{mV}$	-	0	-	dB
Total Harmonic Distortion	THD		-	0.035	-	%
Signal-to-Noise Ratio	S/N	Pin 1 Input: $f = 1\text{kHz}$, $V_{in} = 120\text{mV}$, 0dB $R_g = 4.7\text{k}\Omega$	-	80	-	dB
Output Voltage	V_O	Pin 1 Input: $f = 1\text{kHz}$, Output THD = 2%	-	2.7	-	V_{rms}
Noise Supression Ratio	NSR	Pin 1 Input: $f = 1\text{kHz}$, $V_{in} = 120\text{mV}$, 0dB HPF Input: $f = 100\text{kHz}$, $V_{in} = 80\text{mV}$	-	40	-	dB
Threshold Voltage	V_{th}	Pin 1 Input: $f = 1\text{kHz}$, $V_{in} = 120\text{mV}$, 0dB HPF Input: $f = 100\text{kHz}$, V_{in} : Variable	-	46	-	mV_{rms}
Pulse Duration of One Shot	T	HPF Input: Pin 10: Monitor	-	40	-	μs

Note *. Cut-off Time Circuit is off condition (Pin 12 connected to Pin 9)

Pin Connection Diagram

