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NTE1631 Integrated Circuit FM Stereo Multiplexer w/ Soft Muting

Features:

- Compact Package
- Channel separation as well as high-frequency cutting can be controlled by means of control inputs
- A control input is used to force monaural operation and inhibit oscillations when the applied voltage is low ($V_{CC} = 0V$)
- For a fixed-input waveform phase shift (sub-signal reduced 20%) channel separation is set to maximum using an internal resistance.
- Setting the AM switching input to high forces monaural operation, inhibits oscillations, and cancels the high-cut function.
- Setting the forced monaural input to high forces monaural operation and inhibits oscillations
- Precautions have been taken to eliminate abnormal operation as well as pop noise occurring with power supply and mode switching functions
- Independent high-impedance demodulating and PLL inputs have been provided to enable either directly connected or independent operation
- Wide dynamic range
- +3dB input/output gain
- Low distortion (0.1%)
- Wide supply voltage range (6V to 12V)

Applications:

- Car Stereo
- Music Center
- Stereo audio Cassette Tape Recorder
- Other Stereo Equipment

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

Supply Voltage, V_{CC}	14V
Power Dissipation, P_D	550mW
Operating Temperature Range, T_{opr}	-25 to +75°C
Storage Temperature Range, T_{stg}	-55 to +125°C

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 9\text{V}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Power Supply Voltage	V_{CC}		6	9	12	V
Quiescent Current	I_Q		-	11	-	mA
Channel Separation	Sep		30	40	-	dB
Total Harmonic Distortion	THD	200mVrms MAIN	-	0.1	0.9	%
Input Voltage	V_{IN}	THD = 2%	2	-	-	V_{p-p}
Voltage Gain	G_V		-	3	-	dB
Pilot On Level	P_{IN}		-	8	14	mVrms
Input Impedance	Z_{IN}		-	40	-	k Ω

Pin Connection Diagram



