

## 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 us used to force monaural operation and inhibit oscillations when the applied voltage is low (V<sub>CC</sub> = 0V)
- For a fixed-input waveform phase shift (sub-signal reduced 20%) channel seperation 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 occuring with power supply and mode switching functions
- Indepent 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 adio Cassette Tape Recorder
- Other Stereo Equipment

<b>Absolute Maximum Ratings:</b> $(T_A = +25^{\circ}C \text{ unless otherwise specified})$	
Supply Voltage, V <sub>CC</sub>	14V
Power Dissipation, P <sub>D</sub>	550mW
Operating Temperature Range, Topr	–25 to +75°C
Storage Temperature Range, T <sub>stg</sub>	55 to +125°C

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Power Supply Voltage	V <sub>CC</sub>		6	9	12	V
Quiescent Current	ΙQ		_	11	_	mA
Channel Separation	Sep		30	40	_	dB
Total Harmonic Distortion	THD	200mVrms MAIN	_	0.1	0.9	%
Input Voltage	V <sub>IN</sub>	THD = 2%	2	-	_	V <sub>p-p</sub>
Voltage Gain	G <sub>V</sub>		_	3	_	dB
Pilot On Level	P <sub>IN</sub>		_	8	14	$_{\rm m}V_{\rm rms}$
Input Impedance	Z <sub>IN</sub>		_	40	_	kΩ



