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## 3-INPUT 1-OUTPUT AUDIO SWITCH

### ■ GENERAL DESCRIPTION

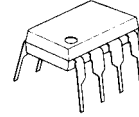
The NJM2521 is 58kΩ input impedance 3-input 1-output audio switch.

It contains two bias-type inputs and one buffer-type output.

### ■ FEATURES

- Operating Voltage ( +4.75V~+13V )
- Crosstalk ( -70dB typ. )
- Input Impedance ( 58kΩ typ. )
- 3-Input, 1-Output
- Bipolar Technology
- Package Outline DIP8,DMP8,SSOP8

### ■ PACKAGE OUTLINE



NJM2521D

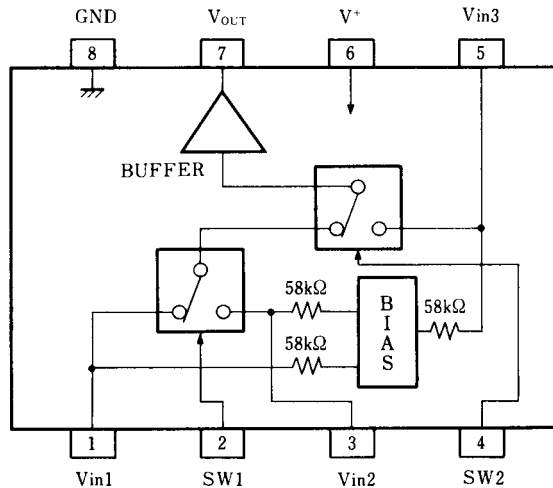


NJM2521M



NJM2521V

### ■ PIN CONFIGURATION



NJM2521D  
NJM2521M  
NJM2521V

### PIN FUNCTION

1. Vin1
2. SW1
3. Vin2
4. SW2
5. Vin3
6. V+
7. Vout
8. GND

# NJM2521

## ■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

| PARAMETER                   | SYMBOL           | RATINGS                                 | UNIT |
|-----------------------------|------------------|---|------|
| Supply Voltage              | V <sup>+</sup>   | +15                                     | V    |
| Power Dissipation           | P <sub>D</sub>   | (DIP8) 500<br>(DMP8) 300<br>(SSOP8) 250 | mW   |
| Operating Temperature Range | T <sub>opr</sub> | -20~+75                                 | °C   |
| Storage Temperature Range   | T <sub>stg</sub> | -40~+125                                | °C   |

## ■ ELECTRICAL CHARACTERISTICS

(V<sup>+</sup>=5V, Ta=25°C)

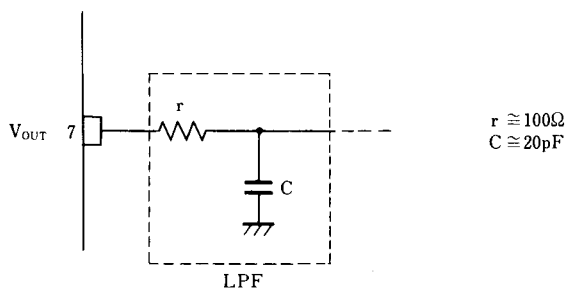
| PARAMETER                 | SYMBOL           | TEST CONDITIONS   | MIN.  | TYP. | MAX.  | UNIT |
|---------------------------|------------------|---|-------|------|-------|------|
| Operating Voltage         | V <sup>+</sup>   |   | +4.75 | -    | +13.0 | V    |
| Operating Current         | I <sub>CC</sub>  |   | -     | 11.0 | 14.5  | mA   |
| Frequency Characteristics | G <sub>f</sub>   | V <sub>IN</sub> =2V <sub>P-P</sub> , V <sub>O</sub> =10MHz / 100kHz | -1.0  | 0    | +1.0  | dB   |
| Voltage Gain              | G <sub>v</sub>   | V <sub>IN</sub> =2V <sub>P-P</sub> , 100kHz                         | -0.5  | 0    | +0.5  | dB   |
| Total Harmonic Distortion | THD              | V <sub>IN</sub> =2.5V <sub>P-P</sub> , 1kHz                         | -     | 0.03 | -     | %    |
| Output Offset Voltage     | V <sub>off</sub> |   | -35   | 0    | +35   | mV   |
| Switching Voltage         | V <sub>CH</sub>  |   | 2.4   | -    | -     | V    |
|                           | V <sub>CL</sub>  |   | -     | -    | 0.8   | V    |
| Input Impedance           | R <sub>i</sub>   |   | -     | 58   | -     | kΩ   |
| Output Impedance          | R <sub>o</sub>   |   | -     | 10   | -     | Ω    |

## ■ INPUT CONTROL SIGNAL-OUTPUT SIGNAL

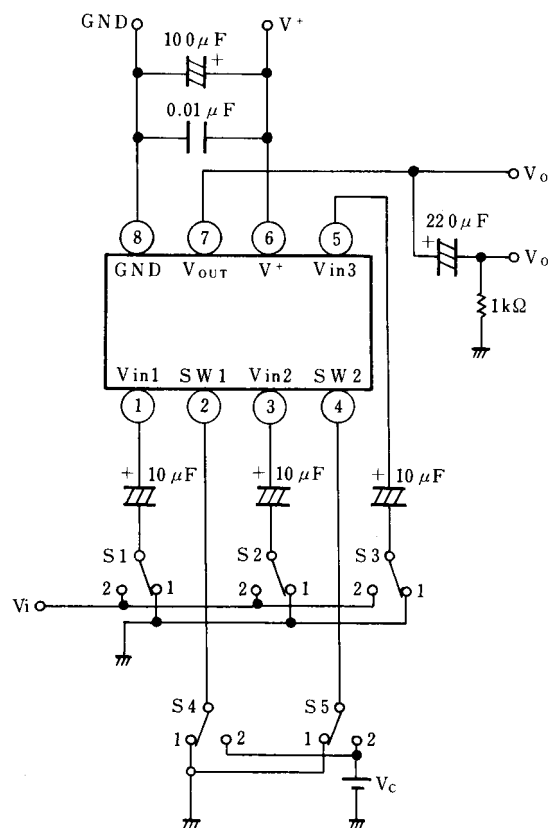
| SW1 | SW2 | OUTPUT SIGNAL    |
|-----|-----|------------------|
| L   | L   | V <sub>IN1</sub> |
| H   | L   | V <sub>IN2</sub> |
| L/H | H   | V <sub>IN3</sub> |

## ■ APPLICATION

Oscillation Prevention on light loading conditions  
Recommended under circuit



## ■ TEST CIRCUIT



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