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## 2-INPUT 1-OUTPUT AUDIO SWITCH

### ■ GENERAL DESCRIPTION

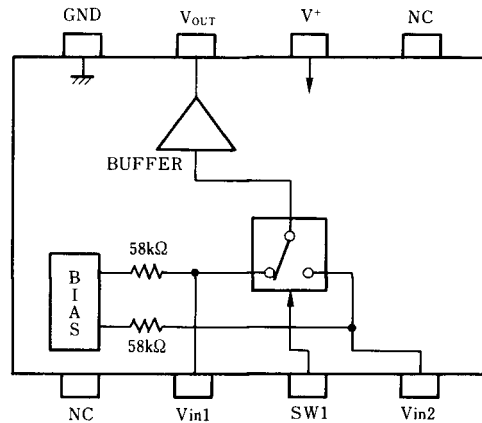
The NJM2520 is 58kΩ input impedance 2-input 1-output audio switch.

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

### ■ FEATURES

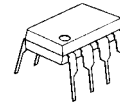
- Operating Voltage ( +4.75V~+13V )
- Crosstalk ( -70dB typ. )
- Input Impedance ( 58kΩ typ. )
- 2-Input, 1-Output
- Bipolar Technology
- Package Outline DIP8,DMP8,SSOP8

### ■ PIN CONFIGURATION



NJM2520D  
NJM2520M  
NJM2520V

### ■ PACKAGE OUTLINE



NJM2520D



NJM2520M



NJM2520V

### PIN FUNCTION

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

# NJM2520

## ■ 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 (DMP8) 300 (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)

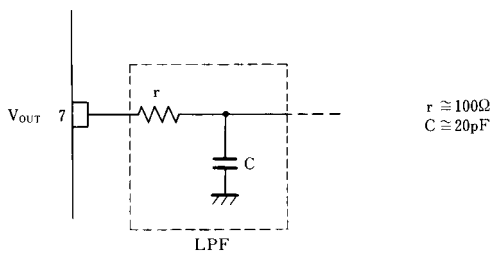
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V <sup>+</sup>		+4.7	-	+13.0	V
Operating Current	I <sub>CC</sub>		-	8.5	11.0	mA
Frequency Characteristics	G <sub>f</sub>	V <sub>IN</sub> =2V <sub>P-P</sub> , V <sub>O</sub> =10MHz / 100kHz	-1.0	0	+1.0	dB
Voltage Gain	G <sub>v</sub>	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	-	0.01	-	%
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

## ■ CONTROL SIGNAL-OUTPUT SIGNAL

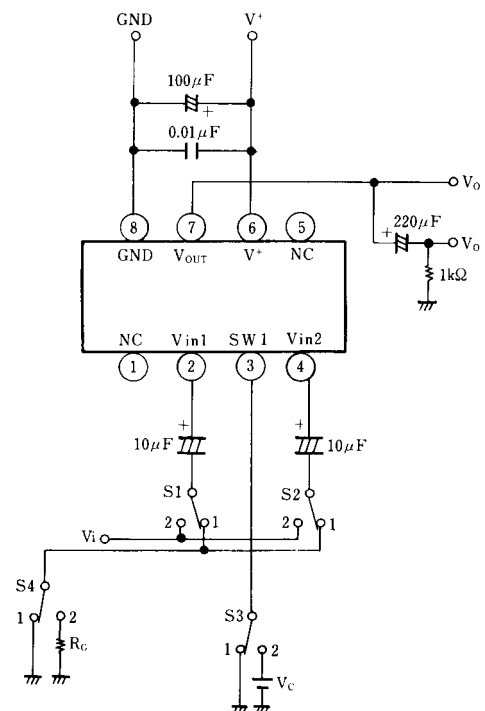
SW1	OUTPUT SIGNAL
L	V <sub>IN1</sub>
H	V <sub>IN2</sub>

## ■ APPLICATION

Oscillation Prevention on light loading conditions  
Recommended under circuit



## ■ TEST CIRCUIT



### [CAUTION]

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