

## 2-INPUT 1-OUTPUT AUDIO SWITCH

### GENERAL DESCRIPTION

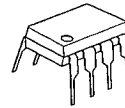
The NJM2520 is 58kΩ input impedance 2-input 1-output audio switch.

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, SIP8, SSOP8

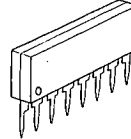
### PACKAGE OUTLINE



NJM2520D



NJM2520M

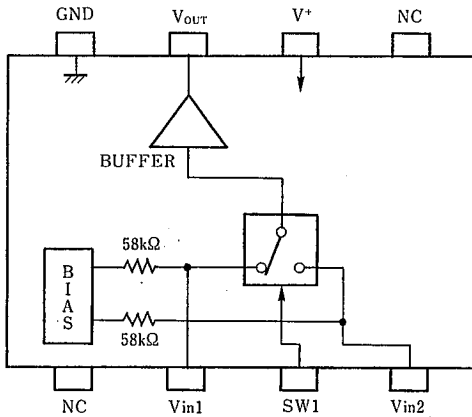


NJM2520L



NJM2520V

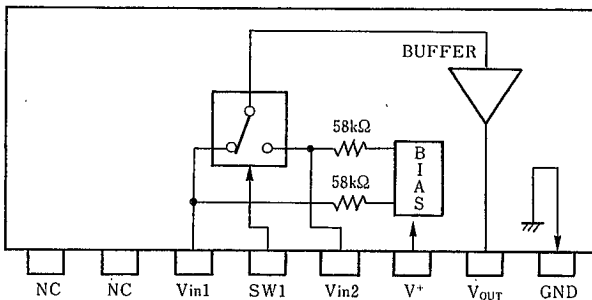
### PIN CONFIGURATION



NJM2520D  
NJM2520M  
NJM2520V

#### PIN FUNCTION

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



NJM2520L

#### PIN FUNCTION

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

## ■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V*	+15	V
Power Dissipation	P <sub>D</sub>	(DIP-8) 500 (DMP-8) 300 (SIP-8) 800 (SSOP-8) 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\*=5V, Ta=25°C)

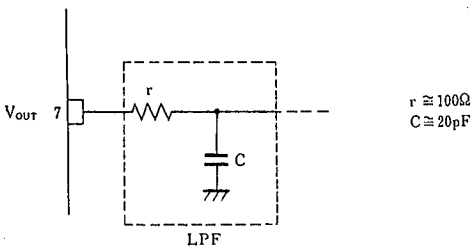
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V*		+4.7	—	+13.0	V
Operating Current	I <sub>cc</sub>		—	8.5	11.0	mA
Frequency Characteristics	G <sub>f</sub>	V <sub>in</sub> =2V <sub>pp</sub> , V <sub>o</sub> =10MHz/100kHz	-1.0	0	+1.0	dB
Voltage Gain	G <sub>v</sub>	V <sub>in</sub> =2V <sub>pp</sub> , 100kHz	-0.5	0	+0.5	dB
Total Harmonic Distortion	THD	V <sub>in</sub> =2.5V <sub>pp</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

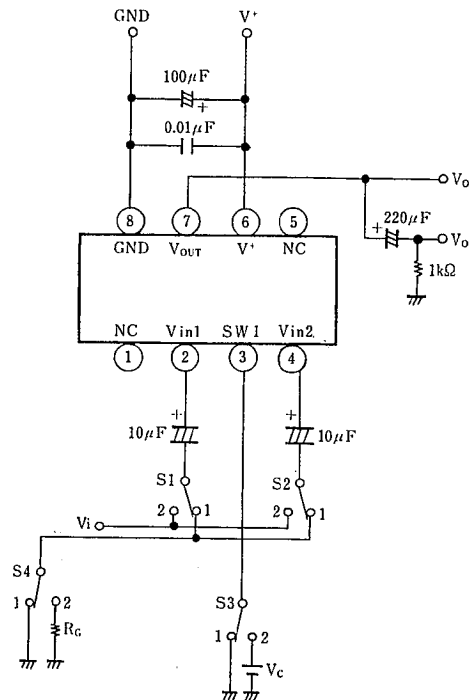
SW1	OUTPUT SIGNAL
L	V <sub>IN1</sub>
H	V <sub>IN2</sub>

## ■ APPLICATION

Oscillation Prevention on light loading conditions  
Recommended under circuit



## ■ TEST CIRCUIT



## MEMO

[CAUTION]

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