

3-INPUT 1-OUTPUT AUDIO SWITCH

■ GENERAL DESCRIPTION

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

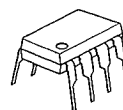
It contains two bias-type inputs and one buffer-type output.

■ FEATURES

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

DIP8, DMP8, SIP8, SSOP8

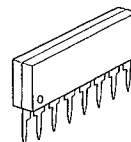
■ PACKAGE OUTLINE



NJM2521D



NJM2521M

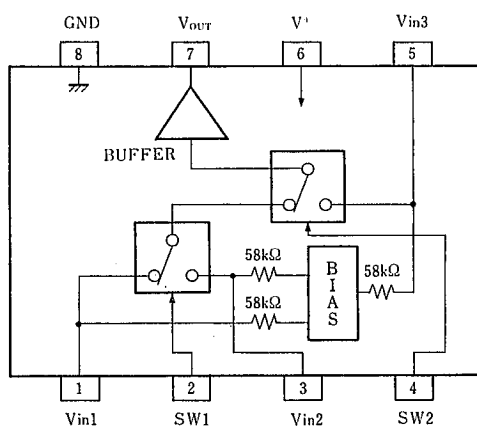


NJM2521L



NJM2521V

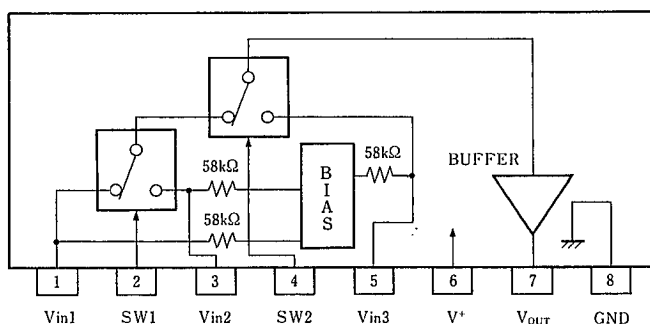
■ PIN CONFIGURATION



NJM2521D
NJM2521M
NJM2521V

PIN FUNCTION

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



NJM2521L

PIN FUNCTION

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

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	+15	V
Power Dissipation	P _D	(DIP-8) 500 (DMP-8) 300 (SIP-8) 800 (SSOP-8) 250	mW
Operating Temperature Range	T _{opr}	-20~+75	°C
Storage Temperature Range	T _{stg}	-40~+125	°C

■ ELECTRICAL CHARACTERISTICS

(V⁺=5V, Ta=25°C)

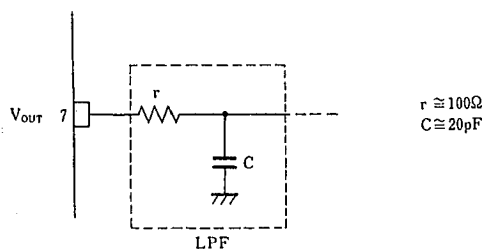
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V ⁺		+4.75	—	+13.0	V
Operating Current	I _{CC}		—	11.0	14.5	mA
Frequency Characteristics	G _f	V _{in} =2V _{pp} , V _o =10MHz/100kHz	-1.0	0	+1.0	dB
Voltage Gain	G _v	V _{in} =2V _{pp} , 100kHz	-0.5	0	+0.5	dB
Total Harmonic Distortion	THD	V _{in} =2.5V _{pp} , 1kHz	—	0.03	—	%
Output Offset Voltage	V _{off}		-35	0	+35	mV
Switching Voltage	V _{CH}		2.4	—	—	V
	V _{CL}		—	—	0.8	V
Input Impedance	R _i		—	58	—	kΩ
Output Impedance	R _o		—	10	—	Ω

■ INPUT CONTROL SIGNAL-OUTPUT SIGNAL

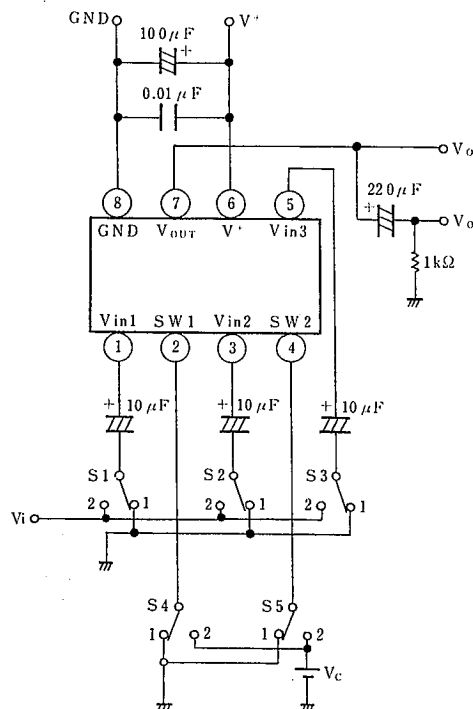
SW1	SW2	OUTPUT SIGNAL
L	L	V _{IN1}
H	L	V _{IN2}
L/H	H	V _{IN3}

■ APPLICATION

Oscillation Pervention on light loading conditions
Recommended under circuit



■ TEST CIRCUIT



MEMO

[CAUTION]

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