

3-INPUT 1-OUTPUT AUDIO SWITCH

■ GENERAL DESCRIPTION

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

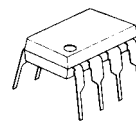
It contains two bias-type inputs and one buffer-type output.

■ FEATURES

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

■ PIN CONFIGURATION

■ PACKAGE OUTLINE



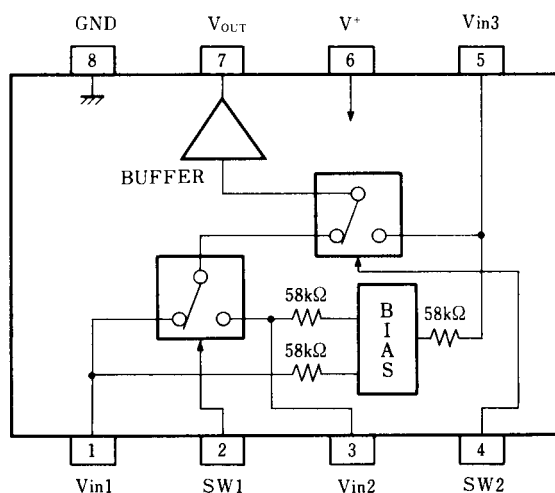
NJM2521D



NJM2521M



NJM2521V



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^+	+15	V
Power Dissipation	P_D	(DIP8) 500 (DMP8) 300 (SSOP8) 250	mW
Operating Temperature Range	T_{opr}	-20~+75	°C
Storage Temperature Range	T_{stg}	-40~+125	°C

■ ELECTRICAL CHARACTERISTICS

($V^+=5V, T_a=25^\circ C$)

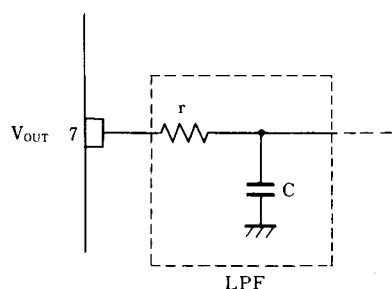
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V^+		+4.75	-	+13.0	V
Operating Current	I_{CC}		-	11.0	14.5	mA
Frequency Characteristics	G_f	$V_{IN}=2V_{P-P}, V_O=10MHz / 100kHz$	-1.0	0	+1.0	dB
Voltage Gain	G_V	$V_{IN}=2V_{P-P}, 100kHz$	-0.5	0	+0.5	dB
Total Harmonic Distortion	THD	$V_{IN}=2.5V_{P-P}, 1kHz$	-	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}

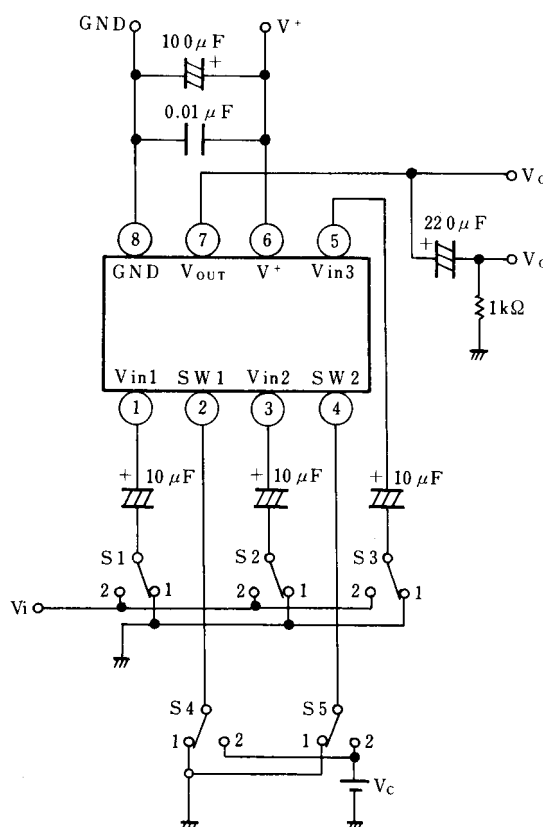
■ APPLICATION

Oscillation Prevention on light loading conditions
Recommended under circuit



$r \cong 100\Omega$
 $C \cong 20pF$

■ TEST CIRCUIT



[CAUTION]

The specifications on this databook are only given for information, without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.