2-INPUT 1-OUTPUT AUDIO SWITCH

■ GENERAL DESCRIPTION

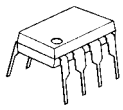
The NJM2520 is 58kΩ input impedance 2-input 1-output audio switch.

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

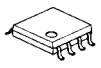
■ FEATURES

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

■ PACKAGE OUTLINE



NJM2520D

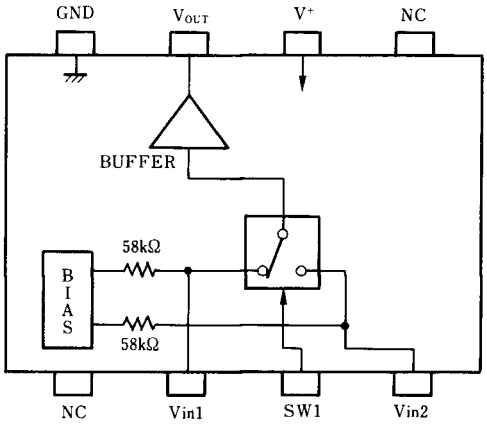


NJM2520M



NJM2520V

■ PIN CONFIGURATION



NJM2520D
NJM2520M
NJM2520V

PIN FUNCTION

1. NC
2. Vin1
3. SW1
4. Vin2
5. NC
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	(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,Ta=25˚C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V^+		+4.7	-	+13.0	V
Operating Current	I_{CC}		-	8.5	11.0	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	-	0.01	-	%
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

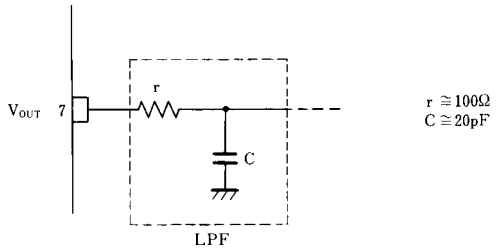
■ CONTROL SIGNAL-OUTPUT SIGNAL

SW1	OUTPUT SIGNAL
L	V_{IN}1
H	V_{IN}2

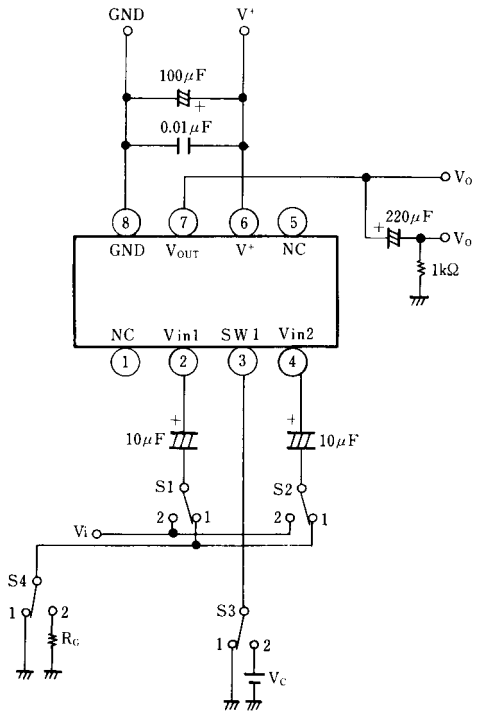
■ APPLICATION

Oscillation Prevention on light loading conditions

Recommended under circuit



■ TEST CIRCUIT



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