2-INPUT 1-OUTPUT AUDIO SWITCH

■ GENERAL DESCRIPTION

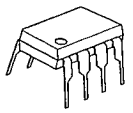
The NJM2520 is 58kΩ input impedance 2-input 1-output audio switch.

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

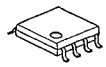
■ FEATURES

- Operating Voltage +4.75V～+13V
- Crosstalk (−70dB typ.)
- Input Impedance (58kΩ typ.)
- 2-Input, 1-Output
- Bipolar Technology
- Package Outline DIP8, DMP8, SIP8, SSOP8

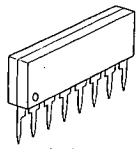
■ PACKAGE OUTLINE



NJM2520D



NJM2520M

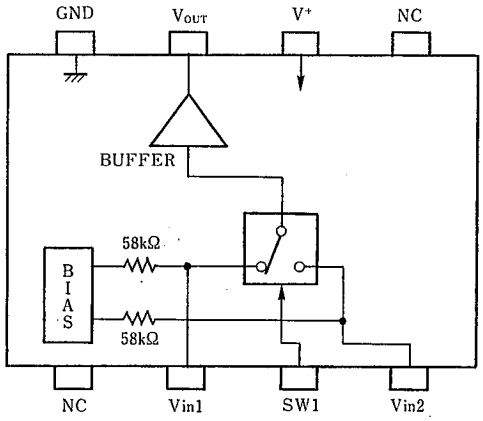


NJM2520L



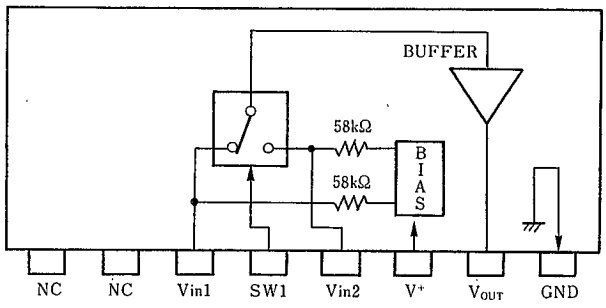
NJM2520V

■ 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℃)

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	℃
Storage Temperature Range	T_{stg}	−40～+125	℃

■ ELECTRICAL CHARACTERISTICS

(V^+=5V, Ta=25℃)

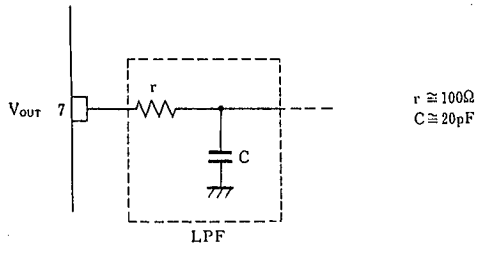
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V^+		+4.7	−	+13.0	V
Operating Current	I_{CC}		−	8.5	11.0	mA
Frequency Characteristics	G_f	Vin=2Vpp, Vo=10MHz/100kHz	−1.0	0	+1.0	dB
Voltage Gain	G_V	Vin=2Vpp, 100kHz	−0.5	0	+0.5	dB
Total Harmonic Distortion	THD	Vin=2.5Vpp, 1kHz	−	0.01	−	%
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

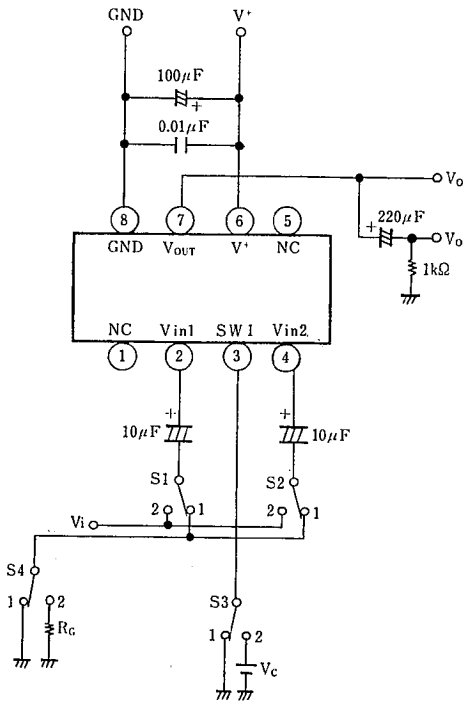
SW1	OUTPUT SIGNAL
L	$V_{IN}1$
H	$V_{IN}2$

■ APPLICATION

Oscillation Pervention on light loading conditions
Recommended under circuit



■ TEST CIRCUIT



MEMO

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