

3-INPUT VIDEO SUPER IMPOSER WITH 6dB AMPLIFIER

■ GENERAL DESCRIPTION

NJM2266 is 3-input, 1-output video switch with 6dB amplifier. One input is provided with sink chip clamp function, which adjust the DC level of video signal. The other two inputs of transistor open base can make control of luminance signal. This video switch can be connected to TV monitor directly, as it has 6dB amplifier circuit internally. NJM2266 is a high performance video switch with is operated 4.75V supply voltage.

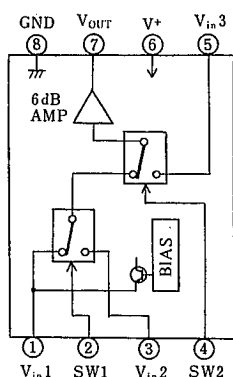
■ FEATURES

- Wide Operating Voltage (4.75 ~ 13V)
- 3 Input, 1 - Output
- Internal 6 dB Amplifier Circuit
- Internal Sink Chip Clamp Function (V_{IN1})
- Internal Luminance Signal Control Function (V_{IN2} , V_{IN3})
- Crosstalk 65dB(at 4.43MHz)
- Package Outline DIP8, DMP8, SIP8
- Bipolar Technology

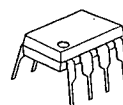
■ APPLICATIONS

- VCR, Video Camera, AV-TV, Video Disc Player.

■ BLOCK DIAGRAM



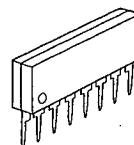
■ PACKAGE OUTLINE



NJM2266D



NJM2266M



NJM2266L

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V+	15	V
Power Dissipation	Pd	(DIP8) 500	mW
		(DMP8) 300	mW
		(SIP8) 800	mW
Operating Temperature Range	Topr	-40~+85	°C
Storage Temperature Range	Tstg	-40~+125	°C

■ ELECTRICAL CHARACTERISTICS

(V+=5V, Ta=25±2°C)

PARAMETERS	SYMBOLS	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Recommended Supply Voltage	V+		4.75	—	13.0	V
Operating Current	ICC	S1=S2=S3=S4=S5=2	—	15	21.0	mA
Voltage Gain	Gv	Vin=1.0Vp-p, 1MHz, Vo/Vi	5.7	6.2	6.7	dB
Frequency Characteristics	Gr	Vin=1.0Vp-p, Vo(5MHz)/Vo(1MHz)	-1.0	0	+1.0	dB
Differential Gain	DG	Vin=1.0Vp-p, Staircase, RL=1kΩ	—	0.2	—	%
Differential Phase	DP	Vin=1.0Vp-p, Staircase, RL=1kΩ	—	0.1	—	deg
Crosstalk	CT	Vo/Vi Vin2, Vin3—Biased (Note 2)		-65		dB
Switch Change Voltage	VCH	Switch High Level Voltage	2.4	—	—	V
	VCL	Switch Low Level Voltage	—	—	0.8	V

Note 1) Unless otherwise specified, tested with the following conditions.

a) S1=1, S2=S3=S4=S5=2 b) S2=S4=1, S1=S3=S5=2 c) S3=S5=1, S1=S2=1, S4=1 and 2

Note 2) Tested with the following conditions.

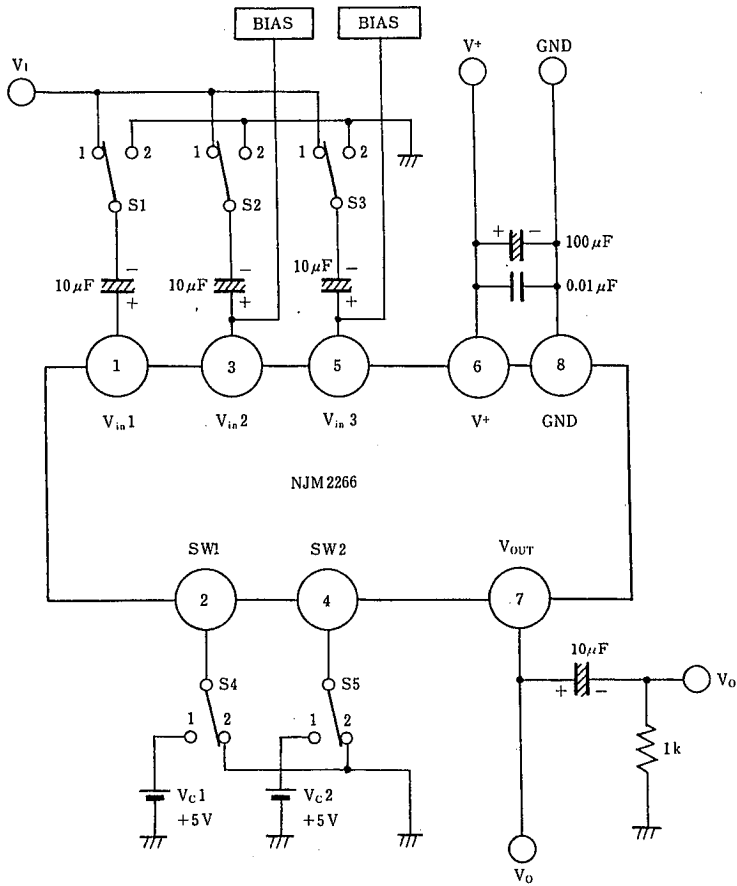
a) S1=S4=1, S2=S3=2, S5=1 and 2 b) S2=1, S1=S3=S4=2, S5=1 and 2 c) S3=1, S1=S2=S5=2, S4=1 and 2

Note 3) The clamp Input voltage of Vin1 is approximately (2.1×V+)/5 (In case of V+=5V, about 2.1V)

■ SWITCH CONTROL SIGNAL-OUTPUT SIGNAL

SW 1	SW 2	OUTPUT SIGNAL
L	L	Vin1
H	L	Vin2
L/H	H	Vin3

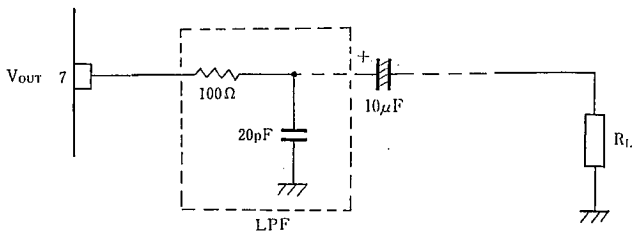
■ TEST CIRCUIT



■ APPLICATION

Oscillation Prevention

It is much effective to insert LPF(Cutoff Frequency 70 MHz) under light loading conditions ($R_L \gg 1k\Omega$)



MEMO

[CAUTION]

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