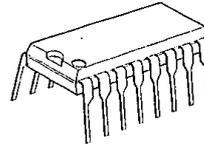


3-INPUT/2-INPUT VIDEO SWITCH

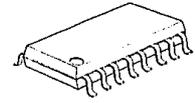
■ GENERAL DESCRIPTION

The NJM2523 is a switching IC for switching over from one audio or video input signal to another. Internalizing 3 input-1 output, and 2 input-1 output and then each set can be operated independently. One of 2 input-1 output are "Clamp type", and they can be operated while setting DC level fixed in position of the video signal. It is a higher efficiency video switch, featuring the operating voltage 4.75V to 13V, the frequency feature 10MHz, and then the Crosstalk 75dB (at 4.43MHz).

■ PACKAGE OUTLINE



NJM2523D



NJM2523M

■ FEATURES

- Operating Voltage (+4.75V ~ +13V)
- Input-1 Output Internalizing 3 circuits (Two of them are Clamp type).
- Crosstalk 75dB(at 4.43MHz)
- Wide Bandwidth Frequency 10MHz(2V_{P-P} Input)
- Package Outline DIP16, DMP16.

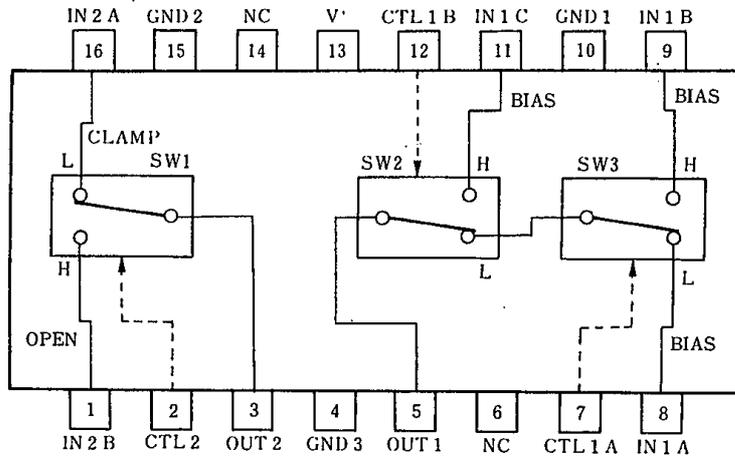
■ RECOMMENDED OPERATING CONDITION

- Operating Voltage V⁺ 4.75~13.0V

■ APPLICATIONS

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

■ BLOCK DIAGRAM



NJM2523D
NJM2523M

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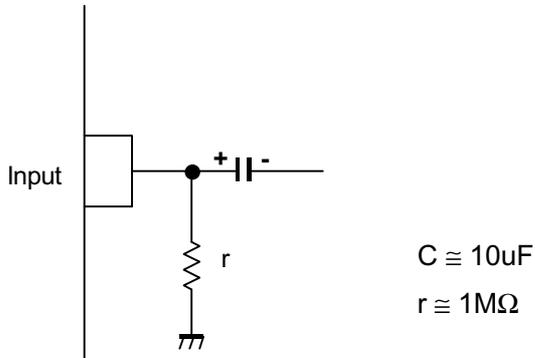
■ TERMINAL EXPLANATION

PIN NO.	PIN NAME	VOL	INSIDE EQUIVALENT CIRCUIT
8 9 11	IN 1 A IN 1 B IN 1 C (Input)	2.5V $\left(\frac{1}{2}V^+\right)$	
16	IN 2 A (Input)	1.5V $\left(\frac{3}{10}V^+\right)$	
1	IN 2 B (Input)		
7 12 2	CTL 1 A CTL 1 B CTL 2 (Switching)		
5	OUT 1 (Output)	1.8V $\left(\frac{1}{2}V^+ - 0.7\right)$	
3	OUT 2 (Output)	0.8V $\left(\frac{3}{10}V^+ - 0.7\right)$	
13	V+	5V	
15 4 10	GND 1 GND 2 GND 3		

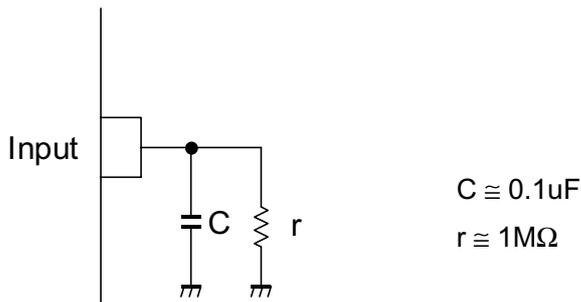
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■APPLICATION

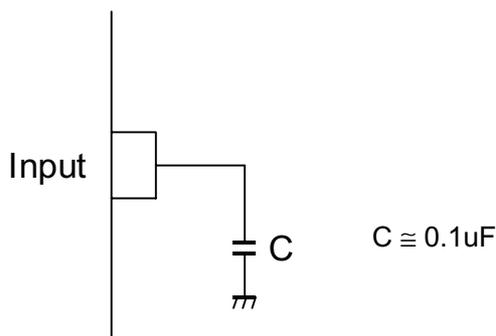
This IC requires $1\text{M}\Omega$ resistance between INPUT and GND pin for clamp type input since the minute current causes an unstable pin voltage.



This IC requires $0.1\mu\text{F}$ capacitor between INPUT and GND, $1\text{M}\Omega$ resistance between INPUT and GND for clamp type input at mute mode.



This IC requires $0.1\mu\text{F}$ capacitor between INPUT and GND for bias type input at mute mode.



[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.