

# 查询"NJM2293M"供应商4-INPUT 1MUTE VIDEO SWITCH

#### **■** GENERAL DESCRIPTION

The NJM2293 is a switching IC for switching over from one audio or video input signal to another. It is a higher efficiency video switch, featuring the operating voltage 4.75 to 13V, the frequency feature 7MHz, and then the Crosstalk 75dB (at 4.43MHz).

#### **■ FEATURES**

- 4 Input-1 Output
- Operating Voltage (+4.75V~+13V)
- Crosstalk 75dB(at 4.43MHz)
- Wide Bandwidth Frequency 7MHz(2VP-P Input)
- Package Outline

DIP16, DMP16.

· Bipolar Technology

#### ■ RECOMMENDED OPERATING CONDITION

Operating Voltage

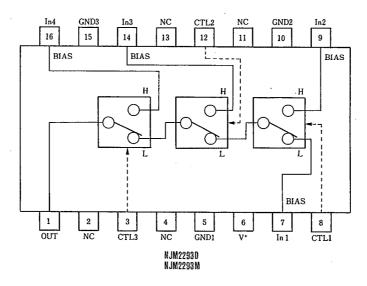
V+

4.75~13.0V

#### **■ APPLICATIONS**

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

#### **■ BLOCK DIAGRAM**



**■ PACKAGE OUTLINE** 





NJM2293D

NJM2293M

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#### **■ MAXIMUM RATINGS**

(Ta=25℃)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V <sup>*</sup>	14	V
Power Dissipation	Pp	P <sub>D</sub> (DIP-16) 700	
·		(DMP-16) 350	mW
Operating Temperature Range	Topr -40~+85		C
Storage Temperature Range	Tstg	-40~+125 °C	

#### **■ ELECTRICAL CHARACTERISTICS**

(V+=5V, Ta=25°C)

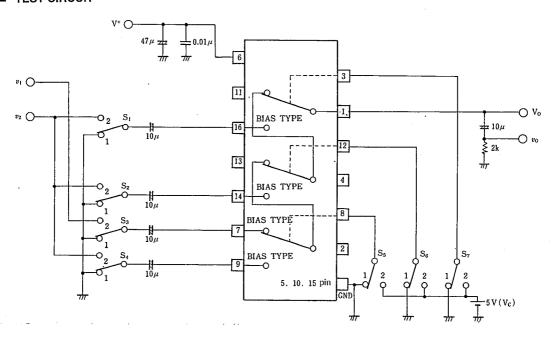
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Current (1)	Iccl	V+=5V (Note!)	4.5	6.5	8.5	mA .
Operating Current (2)	lcc2	V+=9V (Notel)	5.8	8.3	10.8	mΑ
Voltage Gain	Gv	$V_1 = 100 \text{kHz}, 2 \text{V}_{P-P}, V_0 / V_1$	-0.7	-0.2	+0.3	dB
Frequency Gain (1)	Gr I	$V_1 = 2V_{P-P}, V_0(7MHz)/V_0(100kHz)$	-1.0	0	+1.0	dB
Frequency Gain (2)	Gr 2	$V_1 = I V_{P-P}, V_O(10MHz)/V_O(100kHz)$	_	0	l —	dB
Differential Gain	DG	V <sub>1</sub> = 2V <sub>P-P</sub> , Standerd Staircase Signal	_	0.3	l —	%
Differential Phasa	DP	V <sub>1</sub> =2V <sub>P-P</sub> , Standerd Staircase Signal	-	0.3	! —	deg
OutPut offset Voltage	Vos	(Note2)	-4.5	0	+45	mV
Crosstalk	CT	$V_1 = 2V_{P-P}, 4.43MHz, V_0 / V_1$	_	<b>-75</b>		dB
Switch Change Over Voltage	VcH	All inside Switches ON	2.5	<u> </u>	_	V
Switch Change Over Voltage	VCL	All inside Switches OFF		_	1.0	V

(Note1) S1=S2=S3=S4=S5=S6=S7=1

(Note2) S1=S2=S3=S4=1 Measure the output DC voltage difference

- a) S5=S6=S7=1, b) S7=2, S5=S6=1
- c) S6=2, S5=1 d) S5=2

#### **■ TEST CIRCUIT**



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### **■ TERMINAL EXPLANATION**

PIN NO.	PIN NAME	VOLTAGE	INSIDE EQUIVALENT CIRCUIT
7 9 14 16	IN 1 IN 2 IN 3 IN 4 (Input)	2.5V	500 15k 2.5V
8 12 3	CTL1 CTL2 CTL3 (Switching)		2.3V 1.9V 277 777 777
1	OUT (Output)	1.8V	OOUT
6	V+	5 V	
5 10 15	GND 1 GND 2 GND 3		

### NJM2293

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## **MEMO**

[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.