

PRELIMINARY

Three Channels Video Driver

DESCRIPTION

AA7623SP is a three channels video driver, with 75 Ω output buffer, and it supports 5V operation voltage. The 75 Ω buffer is capable of driving two circuits. The DC potential for the previous stage can be used for direct DC-couple, because the input is coming directly with no internal bias or clamp. The IC is available in 8-pin SOP package.

FEATURES

- 1. Composite video driver
- 2. Support 5V operation voltage
- Three channels video driver 3.
- 4. Output short circuit protection function
- 5. A load sufficient for driving two circuits
- 6. Low operating current, 17mA typical
- 7. SOP-8 package
- 8. DC-Couple output

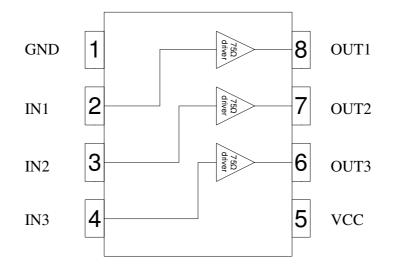
AA7623SP BLOCK DIAGRAM

APPLICATION

VCR \triangleright

Video Camera \triangleright

- \triangleright TV
- Video Player



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PIN DESCRIPTION

Symbol	Pin No	Туре	Function			
GND	1	-	Ground			
IN1	2	Ι	Channel 1 input terminal of composite signal			
IN2	3	Ι	Channel 2 input terminal of composite signal			
IN3	4	Ι	Channel 3 input terminal of composite signal			
VCC	5	-	5V Power Supply			
OUT3	6	0	Channel 3 output			
OUT2	7	0	Channel 2 output			
OUT1	8	0	Channel 1 output			

ABSOLUTE MAXIMUM RATING

Ta = 25 °C

Devementar	Symbol	Rating			LINIT	CONDITION
Parameter		MIN	ТҮР	MAX	UNIT	CONDITION
Supply Voltage	Vcc	-0.3	3	7	V	
Operating Ambient Temperature	Та	-40		85	°C	
Storage Temperature	Ts	-40		125	°C	

NOTE : Stress above those listed under "Absolute Maximum Rating" may cause device permanent damage to the device. This stress-rating only factor and functional operation of the device at these or any other conditions above those indicated in the operational section of this specification is not implied. Exposure to absolute maximum rating conditions for an extended period of time may affect device reliability of the device.

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ELECTRICAL CHARACTERISTICS

					Ta =	$= 25^{\circ}C$, Vcc $= 5V$
Parameter	Symbol	Min	Тур	Max	Unit	Condition
Supply Current	Icc		17	20	mA	No input Signal
Voltage Gain	Gv		-0.5	0	dB	Input Signal Freq = 4.43MHz, 2V _{pp} , measure OUT
Frequency Characteristic	Gf	-3	0	1	dB	Input Signal Freq = 7MHz/1MHz, 2V _{pp} , measure OUT
Maximum Output level	Vom	2.9	3.4		V _{pp}	f=1kHz, THD=10%
Differential Gain	DG		0.4	1.0	%	VIN = 2VPP, refer staircase signal
Differential Phase	DP		0.4	1.0	deg	VIN = 2VPP, refer staircase signal
Crosstalk	СТ		-60		dB	V IN=2VPP 4.43M Sinewave

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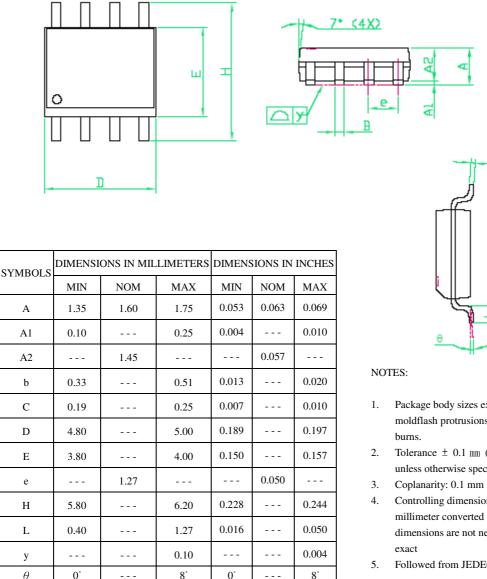
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■ SOP-8 – AA7623SP – PACKAGE DIMENSION



С

- Package body sizes exclude moldflash protrusions or gate
- Tolerance ± 0.1 mm (4 mil) unless otherwise specified
- Controlling dimension is millimeter converted inch dimensions are not necessarily
- Followed from JEDEC MS-012

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