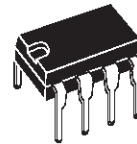




# TEA2124

## VIDEO SWITCH

- 2 VIDEO OUTPUTS WITH 150Ω LOAD DRIVE CAPABILITY
- DYNAMIC OUTPUT AMPLITUDE 4 V<sub>PP</sub> ON EACH OUTPUT
- BANDWIDTH 18MHz TYP
- CLAMPED VIDEO INPUTS
- FULL PROTECTION AGAINST ESD



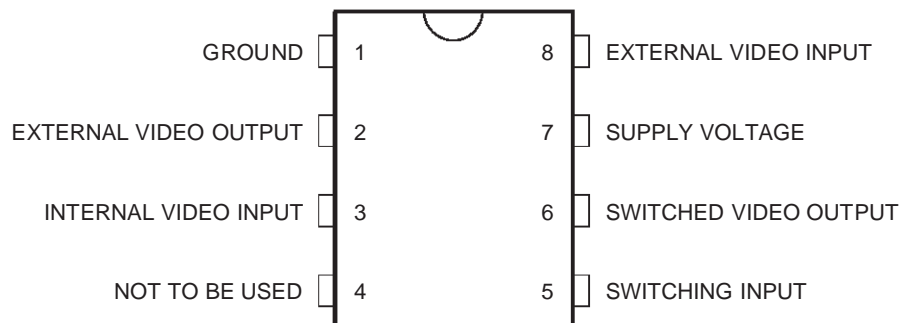
**DIP8**  
(Plastic Package)

**ORDER CODE : TEA2124**

### DESCRIPTION

This integrated circuit provides general video switches. It is particularly intended for switching between the peri TV plug and video section of the sets. Its electrical performances make it suitable for wide bandwidth applications (Teletext, D2MAC).

### PIN CONNECTIONS





**ELECTRICAL CHARACTERISTICS** (continued)T<sub>A</sub> = 25°C, V<sub>CC</sub> = 8V (unless otherwise specified)

Symbol	Parameter	Min.	Typ.	Max.	Unit
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SWITCHED OUTPUT (Pin 6) (R<sub>LOAD</sub> = 150Ω)

	Video Output Swing	3	4		V <sub>PP</sub>
	DC Level Output	0.7	1	1.3	V
	Video Gain (Pin 6 versus Pin 3 or Pin 8, measured at 100kHz, 1 V <sub>PP</sub> input signal)	5.5	6	6.5	dB
	Video Bandwidth (Pin 6 versus Pin 3 or Pin 8, 1V <sub>PP</sub> input signal)	12	18		MHz
	Output Impedance (measured Pin 6)		1		Ω

EXTERNAL OUTPUT (Pin 2) (R<sub>LOAD</sub> = 150Ω)

	Video Output Swing	3	4		V <sub>PP</sub>
	DC Level Output	0.7	1	1.3	V
	Video Gain (Pin 2 versus Pin 3, measured at 100kHz, 1 V <sub>PP</sub> input signal)	5.5	6	6.5	dB
	Video Bandwidth (Pin 2 versus Pin 3, 1V <sub>PP</sub> input signal)	12	18		MHz
	Output Impedance (measured Pin 2)		1		Ω

## SWITCHING INPUT (Pin 5)

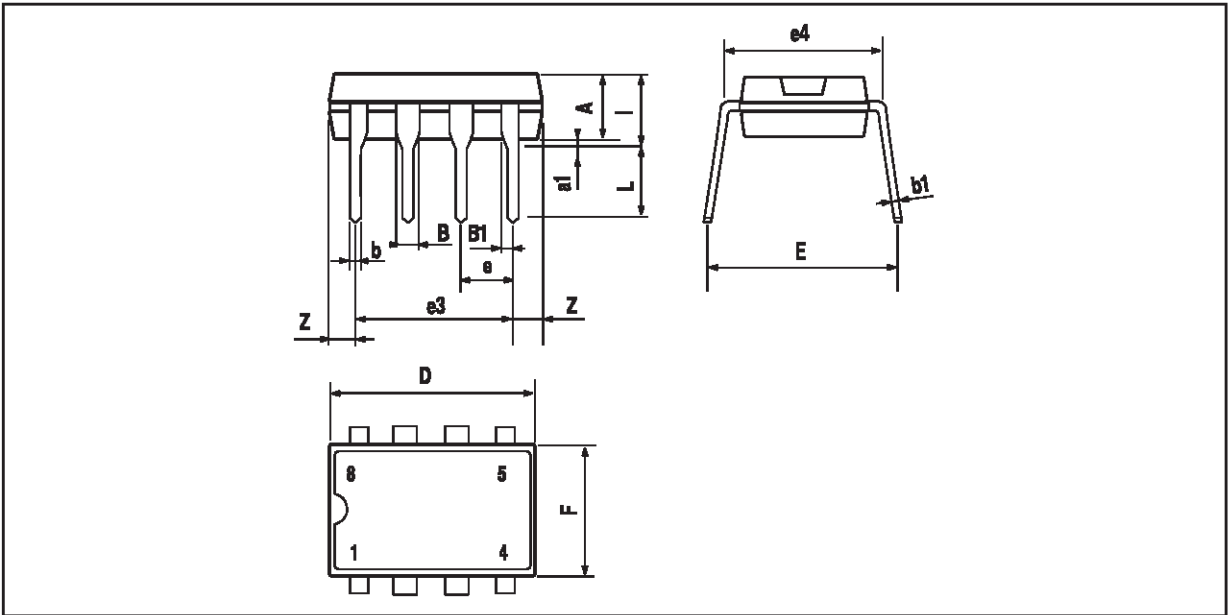
	Output Current Selection Pin (V <sub>5</sub> = 0V)			10	μA
	Threshold Voltage	2.5	3.7	5	V
	Max DC Level			V <sub>CC</sub>	V

## OTHER DYNAMIC FEATURES

	Crosstalk (between any input, measured at 5MHz) R <sub>LOAD</sub> = 150Ω on Pins 2 and 6 R <sub>LOAD</sub> = 1kΩ on Pins 2 and 6		- 50 -55		dB dB
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PACKAGE MECHANICAL DATA  
8 PINS - PLASTIC DIP



PM-DIP8.EPS

Dimensions	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A		3.32			0.131	
a1	0.51			0.020		
B	1.15		1.65	0.045		0.065
b	0.356		0.55	0.014		0.022
b1	0.204		0.304	0.008		0.012
D			10.92			0.430
E	7.95		9.75	0.313		0.384
e		2.54			0.100	
e3		7.62			0.300	
e4		7.62			0.300	
F			6.6			0.260
l			5.08			0.200
L	3.18		3.81	0.125		0.150
Z			1.52			0.060

DIP8.TBL

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