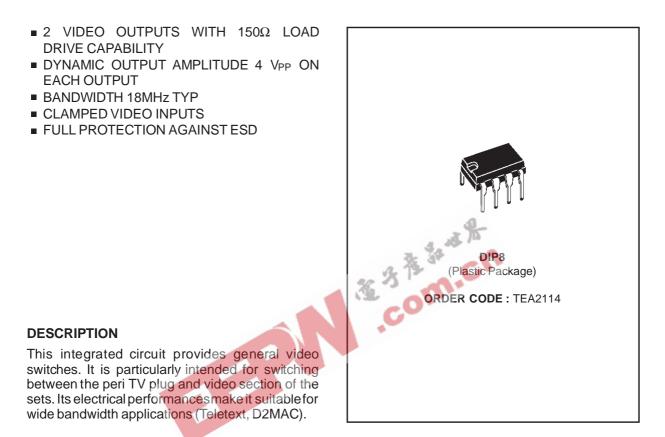
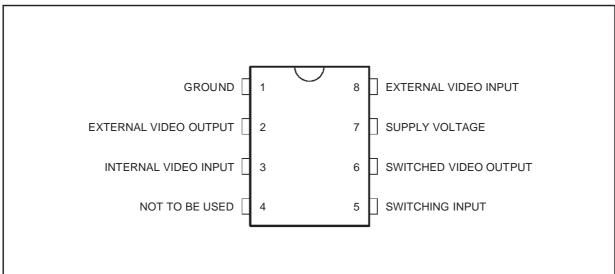


TEA2114

VIDEO SWITCH



PIN CONNECTIONS

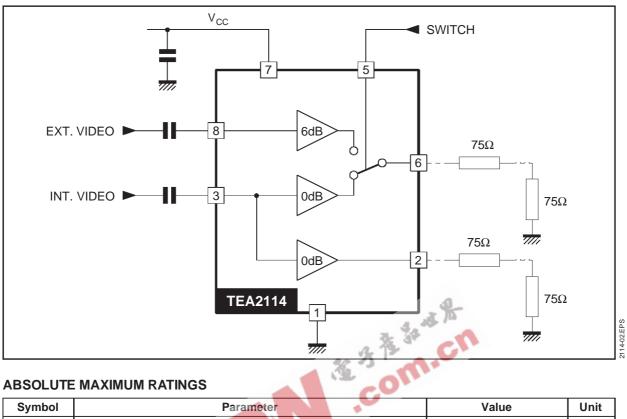


September 1998

2114-01.EPS

TEA2114

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
Vcc	Supply Voltage	14	V
Tj	Junction Temperature	- 40, + 150	°C
T _{stg}	Storage Temperature	- 40, + 150	°C

ELECTRICAL CHARACTERISTICS

 $T_A = 25^{\circ}C$, $V_{CC} = 8V$ (unless otherwise specified)

Symbol	Parameter	Min.	Тур.	Max.	Unit	
V _{CC}	Supply Voltage	6.5		13.2	V	
Icc	Supply Current (no load Pin 2 and Pin 6)		10	15	mA	
Icc	Supply Current (with load 150Ω on Pin 2 and Pin 6, no video on inputs)		25		mA	
INPUTS (Pin 3 and Pin 8)						

Pin3 4 2 Video Input Swing Pin8 V_{DCIN} DC Level Input 1.6 1.9 Input Bias Current (V_{DC} = V_{DCIN} + 1.5 V_{DC}) 2

2114-02.TBL

Vpp

VPP

V

μΑ

2.2

5

lιN

ELECTRICAL CHARACTERISTICS (continued)

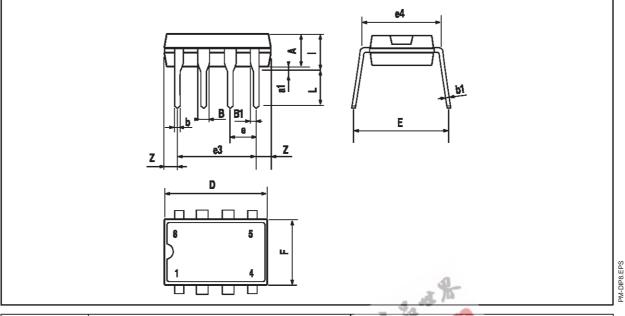
 $T_A = 25^{\circ}C$, $V_{CC} = 8V$ (unless otherwise specified)

Symbol	Parameter	Min.	Тур.	Max.	Unit
SWITCHEI	OUTPUT (Pin 6) ($R_{LOAD} = 150\Omega$)				
	Video Output Swing	3	4		V _{PP}
	DC Level Output	0.7	1.1	1.4	V
	Video Gain Pin 6 versus Pin 3, measured at 100kHz, 1 V _{PP} input signal Pin 6 versus Pin 8, measured at 100kHz, 1 V _{PP} input signal			0.2 6.5	dB dB
	Video BandwidthPin 6 versus Pin 3, 1VPP input signalPin 6 versus Pin 8, 1VPP input signal	18 12	27 18		MHz MHz
	Output Impedance (measured Pin 6)		1		Ω
EXTERNA	OUTPUT (Pin 2) ($R_{LOAD} = 150\Omega$)				
	Video Output Swing	3	4		V _{PP}
	DC Level Output	0.7	1.1	1.4	V
	Video Gain (Pin 2 versus Pin 3, measured at 100kHz, 1 V_{PP} input signal)	-0.8	-0.3	0.2	dB
	Video Bandwidth (Pin 2 versus Pin 3, 1VPP input signal)	18	27		MHz
	Output Impedance (measured Pin 2)		1		Ω
SWITCHIN	G INPUT (Pin 5)				
	Output Current Selection Pin ($V_5 = 0V$)			10	μΑ
	Threshold Voltage	2.5	3.7	5	V
	Max DC Level			Vcc	V
OTHER D	NAMIC FEATURES (R _{LOAD} = 150Ω on Pin 2 and Pin 6)				
	Crosstalk (between any input, measured at 5MHz)		- 50		dB

57

PACKAGE MECHANICAL DATA

8 PINS - PLASTIC DIP



Dimensions		Millimeters		A REAL	Inches	
Dimensions	Min.	Тур.	Max. 🦔	🐴 Min.	Тур.	Max.
A		3.32			0.131	
a1	0.51			0.020		
В	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
е		2.54			0.100	
e3		7.62			0.300	
e4		7.62			0.300	
F			6.6			0260
			5.08			0.200
L	3.18		3.81	0.125		0.150
Z			1.52			0.150 0.060

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57