

SECAM Decoder

The ILA8395 is a self-calibrating, fully integrated SECAM decoder. The IC should preferably be used in conjunction with the PAL/NTSC decoder ILA8362 or ILA8366 and with the switched capacitor baseband delay circuit ILA4661. The IC incorporates HF and LF filters, a demodulator and an identification circuit (luminance is not processed in this IC). The IC needs no adjustments and very few external components are required. A highly stable reference frequency is required for calibration and a two-level sandcastle pulse for blanking and burst gating. Device is functionally identical to the TDA8395 Philips.

QUICK REFERENCE DATA

PARAMETER, UNIT	SYMBOL	TYPE
Supply current, mA	I_{CC}	25
Positive supply voltage, V	V_p	7.2...8.8
Total power dissipation, mW	P_{tot}	220
Output voltage amplitude (peak-to-peak), V	$V9_{(p-p)}$	0.97...1.13
Output voltage amplitude (peak-to-peak), V	$V10_{(p-p)}$	1.23...1.43
Ratio of -(B-Y) and -(R-Y)	$-(B-Y) / -(R-Y)$	1.23...1.32
Operating ambient temperature range, °C	T_{amb}	-25...+70

PINNING

PIN	SYMBOL	DESCRIPTION
1	$f_{ref}/IDENT$	reference frequency input/identification input
2	TEST	test output
3	V_p	positive supply voltage
4	n.c.	not connected
5	n.c.	not connected
6	GND	ground
7	$CLOCHE_{ref}$	Cloche reference filter
8	PLL_{ref}	PLL reference
9	-(R-Y)	-(R-Y) output
10	-(B-Y)	-(B-Y) output
11	n.c.	not connected
12	n.c.	not connected
13	n.c.	not connected
14	n.c.	not connected
15	SAND	sandcastle pulse input
16	CVBS	video (chrominance) input

SIMPLIFIED APPLICATION DIAGRAM

