

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

