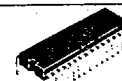


**LA7824**

monolithic linear IC

CIRCUIT DRAWING  
No.2185**COLOR CRT DISPLAY SYNCHRONIZATION,  
DEFLECTION CIRCUIT**

3006A

The LA7824 is an IC that has a wide vertical pull-in range of 20Hz and contains a generator of horizontal, vertical blanking pulses as well as the main functions required to provide synchronization and deflection in color CRT displays and also accepts TTL input. It is a multifunctional IC aiming at high-quality picture reproduction.

**Functions**

- Sync separation
- Vertical oscillation
- Vertical drive
- Horizontal AFC
- Horizontal oscillation
- X-ray protection
- Composite blanking pulse (vertical + horizontal blanking pulse)
- Vertical blanking pulse (Vertical blanking pulse only can be taken out.)

**Features**

- Nonadjusting at vertical sync 50Hz/60Hz due to vertical pull-in range of 20Hz
- Horizontal and vertical oscillation are stable against variations in ambient temperature and supply voltage due to small warm-up drift.
- Small variation in horizontal oscillation frequency
- Good linearity and interface because DC bias at vertical output stage is subjected to sampling control within retrace time.
- Any vertical blanking pulse width can be set by peripheral parts.
- Multifunctional and small-sized (DIP-16)

**LA7830,7831**

monolithic linear IC

CIRCUIT DRAWING  
No.2186**COLOR TV VERTICAL DEFLECTION  
OUTPUT CIRCUIT**

3050(LA7830)



3024A(LA7831)

The LA7830 and LA7831 are monolithic linear IC's for color TV vertical deflection output use and have such features as greatly reduced number of external parts and low power dissipation. They can be used in conjunction with the LA7620 for video chroma deflection use and the LA7800 series for deflection use to form a stable and compact vertical deflection circuit.

**Features**

- High output
- Built-in pump-up circuit and low power dissipation.
- Minimum number of external parts required.
- Maximum deflection output current

| LA7830 | LA7831 |
|--------|--------|
| 1.5A   | 1.8A   |

**Functions**

- Driver
- Pump-up circuit
- Output