

The LA7800 is a multifunctional IC containing various required for synchronization, deflection of color television sets. This IC has been developed under the design concept that the basic characteristics should be made more complete and the television sets with this IC incorporated should be streamlined by making the device compact (DIP-16) and by minimizing the number of parts required.

Functions

- Synchronizing separation
- Horizontal AFC
 Vertical drive
- Horizontal oscillation
 X-ray protection

Vertical oscillation
 Vertical blanking

Features

- · Multifunction and compact(DIP-16)
- Minimum number of parts required
- · Horizontal, vertical oscillators 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 interlace because DC bias at vertical output stage is subjected to sampling control within retrace time.
- Vertical blanking pulse width can be set freely according to peripheral parts.

Maximum Ratings at Ta=25°C Maximum Supply Voltage Maximum Supply Current Allowable Power Dissipation Operating Temperature Storage Temperature	V ₁₂ I ₁₅ Pd ma Topr Tstg	IX ¹	Ta=60°C		– 20 to + – 55 to +		unit V mA mW °C °C	
Recommended Operating Cone Recommended Supply Voltage		t Ta = 2	25°C	·		12	unit V	
Operating Characteristics at Ta V_{CC} 12 Current Dissipation V_{CC} 15 Supply Voltage Vertical Frequency Pull-In Ran Vertical Free-Running Frequency Supply Voltage Dependence of Vertical Frequency Temperature Characteristic of Vertical Frequency	nge	$V_{12} = I_{CC}12$ $V_{CC}15$ f_V		z 7,55Hz at 12V	min 13.0 11.8 9.0 50 -0.5 -0.028 Contin	typ	max 20.0 13.2 11.0 60 0.5 0.028 1 0.028 1	
			Package Di (unit :mm) 3006B	mensions		9 <u>-</u>		

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0.48 2.54

SANYO: DIP16

LA7800



Note) 1. The vertical output circuit is represented by the basic circuit.

- 2. The peripheral parts connected to pin 8 are changed according to the Ver. Out circuit conditions.
- The limit resistor (220Ω: 1Vp-p) connected to pin 14 is changed according to the magnitude of the input video signal.
- 4. The time constant circuit $(120k\Omega, 4.7\mu F)$ connected to pin 14 is such that the resistor is changed according to the DC level of the input video signal and the time constant is changed with the capacitance value.



Note) The Temperature characteristic of oscillation frequency represents the one for IC itself without peripheral parts.

