

7997076 SANYO SEMICONDUCTOR CORP

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**LA7509**

monolithic linear IC

CIRCUIT DRAWING  
No.2167

TV VIDEO IF SYSTEM



3006A

The LA7509 is an IC to be used jointly with FET tuner (reverse AGC). The IF amp has a high gain so that an SAWF can be used without preamp. Two pins are provided for AGC filter so that AGC speed can be made faster.

**Functions**

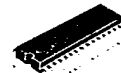
- Video IF amp.
- Peak IF AGC
- Black noise and white noise canceler
- Video amp.
- Video Detector
- RF AFC amp.
- AFT

**Features**

- High-gain IF amp.
- Wide AGC range
- High immunity against noise and fast AGC speed
- Excellent differential phase due to the use of LLD limiter diode

**LA7520N, 7521N**

monolithic linear IC

CIRCUIT DRAWING  
No.2169(VIF + SIF) CIRCUIT FOR TV,  
VTR APPLICATIONS

3061

The LA7520N is an IC containing the VIF section and SIF section on a single chip in the DIP30S package (equivalent to the DIP22 heretofore in use) of shrink type. Since the LA7520N is capable of performing video detection and sound detection independently or simultaneously, it can be applied to various sets from popular type to high-grade type according to the designer's policy. As compared with the LA7520, the LA7520N is more improved in differential gain, noise canceler characteristic. The LA7520 and LA7520N are compatible with each other.

The LA7521N is an IC designed to meet diversified specifications for tuners and is different from the LA7520N in maximum RF AGC voltage [V13H]. Further, when a coil is used in the FM detector, the detection output voltage can be made high because the LA7521N has a high FM detector input impedance.

**Functions**

VIF section: VIF AMP, VIDEO DET, PEAK IF AGC, B/W NOISE-CANCELER, RF AGC, SIF DET  
SIF section: SIF LIMITER AMP, FM DET, DC ATT, AF DRIVER

**Features**

- High-gain VIF amp requiring no preamp.
- High AGC speed.
- Provides wide-band detection characteristic and meets sound MPX demodulation requirements because of FM detection being quadrature detection.
- Possible to use sound REC pin (pin 2), AUX pin (pin 3).
- Possible to mute video, sound for VTR.  
Pin 7 GND: Muting of both video and sound.  
Pin 29 GND: Muting of sound only.