

7997076 SANYO SEMICONDUCTOR CORP

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LA7920

monolithic linear IC

CIRCUIT DRAWING
No.2193**TV TUNER BAND SELECTOR**

3017B

The LA7920 is a tuner band selector IC intended for use in electronic tuning type TV sets. It outputs supply voltages to the tuner unit according to 2-input band select signals.

Features

- 2 inputs, 4 outputs.
- Decoders of 2 types available by changing-over C pin.
- Single-supply operation (Output transistor: pnp type).
- Low output saturation voltage.

LA7925

monolithic linear IC

CIRCUIT DRAWING
No.2194**PERIPHERAL FOR TV/VTR FREQ.
SYNTHESIZER CHANNEL SELECT SYSTEM**

3021B

The LA7925 contains CPU/PLL-excluded peripheral circuits such as band switch, sync detector, 32V zener, electronic volume control pulse amp (with muting), low-pass filter for color TV/VTR frequency synthesizer channel select system use.

Functions

- Band switch (2-input 4-output)
- Video signal, flyback pulse output-used detection of tuning mode and horizontal sync mode.
- 32V zener
- Electronic volume control pulse amp and sound muting
- OP amp for low-pass filter (for frequency synthesizer)

Features

- The band switch truth table can be changed in a short period of time at the user's option.
- The band switch is of pnp output type which need not be driven externally.
- The OP amp for low-pass filter is excellent in pulse response because of its high-impedance input pin.

LA7930

monolithic linear IC

CIRCUIT DRAWING
No.2195**TUNING SYSTEM CONTROLLER**

3061

Functions

- 32V zener voltage.
- Pulse width modulation amp. for tuning.
- Op amp. for active low-pass filter.
- Window comparator with variable window height.
- Sync. detection.
- 2-input, 5-output band SW. (1 NPN Tr, 4 PNP Tr)
- +5V power supply for CPU.
- CPU reset output at power SW ON.
- Sound mute at power SW ON and OFF.
- AFT defeat.
- Pulse width modulation amp. with mute for volume control.

Features

- Containing temperature stable 32V zener diode. (Less than $\pm 1\text{mV/deg.}$)
- Logic function of band SW is mask programmable by user's request.
- The Output transistors for $F_1 \sim F_4$ are PNP type, and no external drive is necessary. [$I_o = 40\text{mA}$]
- Possible to apply negative voltage to $F_1 \sim F_4$ output transistors at OFF condition.
- Current sink capacity of +5V power supply (typ. -30mA) can be extended by bypass resistor.
- Window height of window comparator is settable at any value from 40mV to 5V.