

No. 920E

LA7910

## TV Tuner Band Selector

The LA7910 is an IC for tuner band selection of electronic tuning type television set. This IC is used for producing the VHF channel "L" band power supply/VHF channel "H" band power supply/UHF channel power supply for tuner and the CATV power supply according to the band select signal of 2 inputs.

#### **Functions**

- . VHF "L" band power supply output.
- . VHF "H" band power supply output.
- . UHF power supply output.
- . CATV power supply output.

#### Features

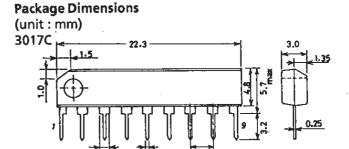
- . 2 inputs and 4 outputs.
- . Low output saturation voltage : 0.25V typ., IO=60mA
- . Compact 9-pin single-end package.

Maximum Ratings at Ta=25°C			unit
Maximum Supply Voltage	V9 max	15	V
Maximum Load Current	$I_1 \max, I_2 \max,$	-60	mA
7	I7 max, I8 max		
Maximum Supply Current V <sub>CC2</sub>	I6 max	10	mΑ
Allowable Power Dissipation	$P_d$ max	200	mW
Operating Temperature	Topr:	-20 to +85	°C
Storage Temperature	Tstq	-55 to +125	°C
Input Current	I <sub>3</sub> max, I <sub>4</sub> max	2	mΑ

Operating Characteristics at	Ta=25°C	min	typ	max	unit
Current Dissipation	I1,I2,I7,I <sub>8</sub>			60	mA
Output Saturation Voltage	Vo(sat): V9=12V, I6=5mA, Io=60mA	0	0.25	0.7	V
Input "H" Level Threshold	$V_{\mathrm{TH}}$			3.0	٧
Voltage					
Input "L" Level Threshold	$V_{\mathbf{TL}}$	0.8			V
Voltage					
Output Leak Current	$I_{1},I_{2},I_{7},I_{8}$ $T_{a} \leq 70^{\circ}C$			50	μA

### Note) Current direction:

Current flowing into IC: Plus (No sign)
Current flowing out of IC: Minus (-)



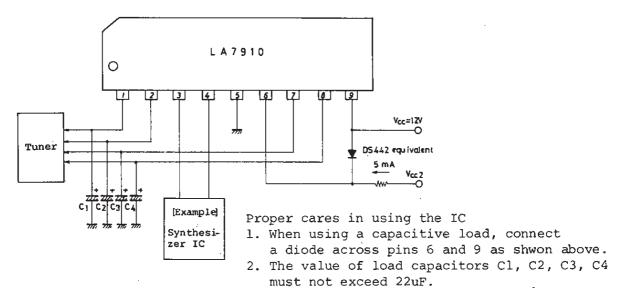
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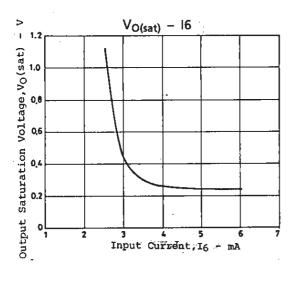
Truth Table

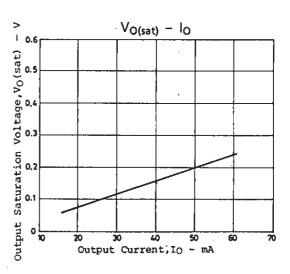
Input		Output			
Pin 3	Pin 4	Pin 1	Pin 2	Pin 7	Pin 8
Ţ,	Ĺ	Н	Z	2	Z
Н	L	Z	Н	Z	Z
ւ	н	Z	Z	Н	2
Н	Н	2	Z	Z	Н

Input threshold voltage
: V<sub>TL</sub>=0.8V,V<sub>TH</sub>=3V

# Sample Application Circuit







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