

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	mΑ
١	$I7 \text{ max}, I_8 \text{ max}$		
Maximum Supply Current V _{CC2}	I ₆ max	10	mΑ
Allowable Power Dissipation	$P_{\mathbf{d}}$ max	200	mW
Operating Temperature	Topr	-20 to +85	°C
Storage Temperature	T _{stq}	-55 to +125	°C
Input Current	I3 max, I4 max	2	mΑ

operating characteristics at	1d=25°C	min	typ	max	unit
Current Dissipation	I1,I2,I7,I ₈			60	mA
Output Saturation Voltage	Vo(sat): V9=12V, I6=5mA, Io=60m	ıA O	0.25	0.7	V
Input "H" Level Threshold	V_{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 ≦70°C			50	μA

Note) Current direction:

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

Package Dimensions (unit : mm) 3017C 22.3 3.0 1.35 2.54

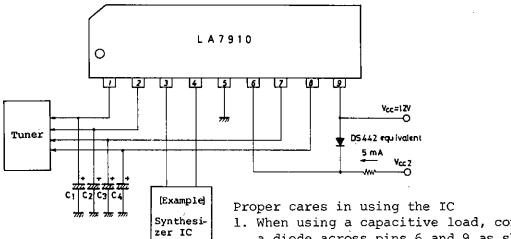
SANYO: SIP9

Truth Table

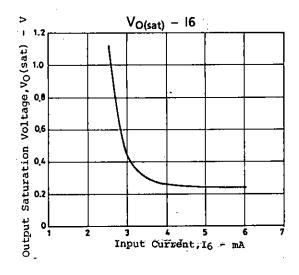
Input		Output			
Pin 3	Pin 4	Pin 1	Pin 2	Pin 7	Pin 8
Ţ,	Ĺ	Н	Z	2	Z
Н	ե	Z	Н	Z	Z
և	Н	Z	Z	Н	2
H	Н	2	Z	Z	Н

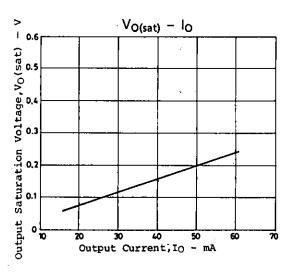
Input threshold voltage $: V_{TL} = 0.8V, V_{TH} = 3V$

Sample Application Circuit



- 1. When using a capacitive load, connect a diode across pins 6 and 9 as shwon above.
- 2. The value of load capacitors Cl, C2, C3, C4 must not exceed 22uF.





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