

LA7213

VCR-Use Automatic Channel Selection Peripheral

Overview

The LA7213 is a VCR-use automatic channel selection peripheral IC that contains a sync separator and a vertical sync separator.

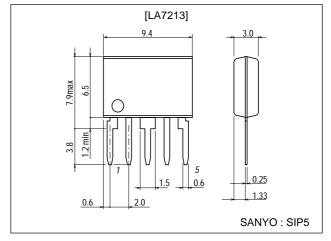
Functions and Features

- Sync separation.
- Vertical sync separation.
- Recommended supply voltage: 5V
- Open collector output (R_L =10 $k\Omega$), negative polarity output.

Package Dimensions

unit:mm

3042C-SIP5



Specifications

Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		7.0	V
Allowable power dissipation	Pd max	Ta≤75°C	100	mW
Operating temperature	Topr		-15 to +75	°C
Storage temperature	Tstg		-40 to +125	°C

Operating Conditions at $Ta = 25^{\circ}C$

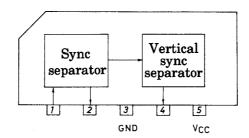
Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	VCC		5.0	V
Operating voltage	V _{CC} op		4 to 6	V

Operating Characteristics at Ta = 25°C, $V_{CC}=5V$

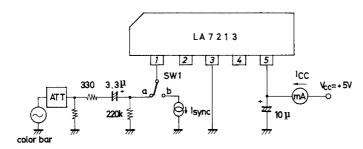
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oill
Circuit current	Icc	No load	0.5	0.9	1.5	mA
Sync separation operating current	ISYNC	SW1=b		85		μΑ
Sync separation minimum input level	V _I min	Color bar signal 1Vp-p=0dB, SW1=a		-12		dB
Vertical sync separation output time delay	TVOUT	Color bar of input=1Vp-p, SW1=a	5	10	20	μs
Output DC level	V _{2H}	No load	4.9			V
Output DC level	V _{2L}	No load			0.2	V
Output DC level	V _{4H}	No load	4.9			V
Output DC level	V_{4L}	No load			0.2	V

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Block Diagram

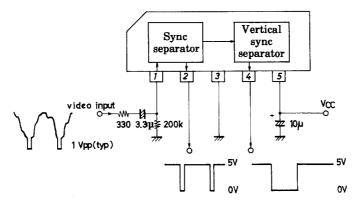


Test Circuit



Unit (resistance : Ω , capacitance : F)

Sample Application Circuit



Unit (resistance : Ω , capacitance : F)

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