

# CN3334

## Four-Channel 6th-Order High Definition and Standard Definition Video Filter Driver

### Features

- One CVBS channel with 6th-order 12MHz SD filter
- Triple 6th-order 40MHz HD filters
- Drive Single or Dual Video Load
- 6dB Output Driver Gain
- Transparent Input Clamping
- AC or DC Coupled Inputs
- AC or DC Coupled Outputs
- Operates from 3.1V to 5.5V

### Applications

- Cable set-top boxes
- Satellite set-top boxes
- DVD Players
- Personal Video Recorders
- Communications Devices
- Video on Demand

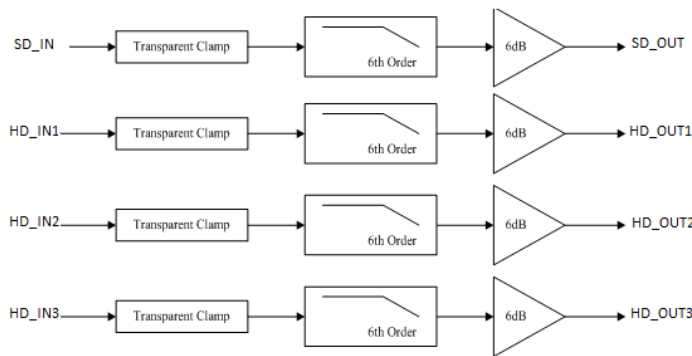
### Description

The CN3334 low voltage, four channels video filter is intended to replace passive LC filter and drivers with a low-cost integrated device. The 6<sup>th</sup> order filter provides much improved image quality compared to typical 2<sup>nd</sup> or 3<sup>rd</sup> order passive LC filters. The filters are especially suited for high definition video signals, such as television and set-top box applications.

The CN3334 can be directly driven by a DC coupled DAC output or an AC coupled signal. Internal diode clamps and bias circuitry may be used if AC-coupled inputs are required.

The output can drive AC or DC coupled single (150 Ω) or dual (75 Ω) loads. DC coupling the outputs removes the need for output coupling capacitors. The input DC levels are offset approximately 380 mV at the output.

### Functional Block

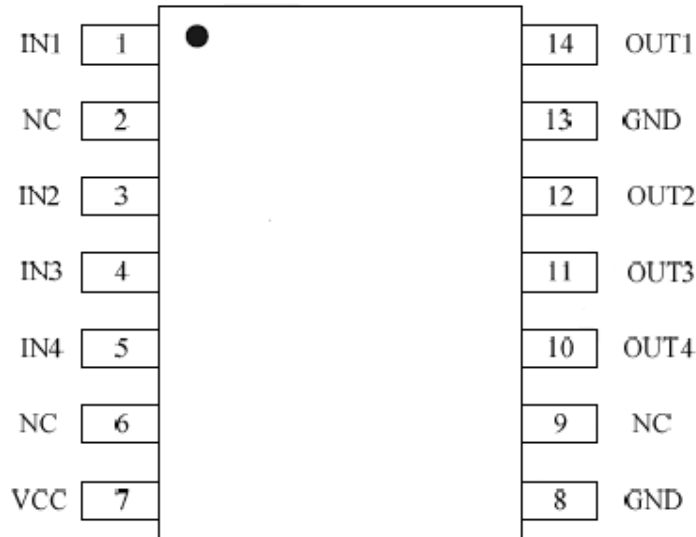


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## Ordering Information

Order Part Number	Top Marking	Pb-Free	T <sub>A</sub>	Package	
CN3334TP14		Yes	-40 to +125°C	SOIC8	Tape & Reel, 3000

## Pin Configuration



**TSSOP-14**

## Pin Description

Pin Name	Pin Number	Description
IN1	1	SD Video input, Channel 1
NC	2	No connection
IN2	3	HD Video input (Pr), Channel 2
IN3	4	HD Video input (Pb), Channel 3
IN4	5	HD Video input (Y), Channel 4
NC	6	No connection
VCC	7	Power Supply
GND	8	Ground