
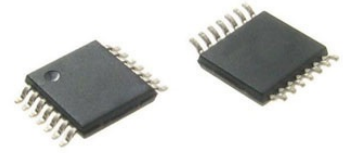


## Video Amp Quad 5V 14-Pin TSSOP T/R

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	TSSOP14
<b>Product Type:</b>	Amplifier ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

## General Description

Fabricated using the revolutionary, complementary Silicon-Germanium (SiGe) BiCom3X process, the THS7373 is a low-power, single-supply, 3-V to 5-V, four-channel integrated video buffer. It incorporates one standard-definition (CVBS) and three high-definition (HD) filter channels. All filters feature sixth-order Butterworth characteristics that are useful as digital-to-analog converter (DAC) reconstruction filters or as analog-to-digital converter (ADC) anti-aliasing filters. The HD filters can be bypassed to support 1080p60 video or up to quad extended graphics array (QXGA) RGB video.

As part of the THS7373 flexibility, the input can be configured for ac- or dc-coupled inputs. The 300-mV output level shift allows for a full sync dynamic range at the output with 0-V input. The ac-coupled modes include a transparent sync-tip clamp option for composite video (CVBS), Y', and G'B'R' signals. AC-coupled biasing for C'/P'B/P'R channels can easily be achieved by adding an external resistor to VS+.

The THS7373 rail-to-rail output stage with 6-dB gain allows for both ac and dc line driving. The ability to drive two lines, or 75-Ω loads, allows for maximum flexibility as a video line driver. The 16.2-mA total quiescent current at 3.3 V and 0.1 μA (disabled mode) makes it an excellent choice for power-sensitive video applications.

The THS7373 is available in a small TSSOP-14 package that is lead-free and green (RoHS-compliant).

## Key Features

One SDTV Video Amplifier for CVBS Video

Three HDTV Video Amplifiers for Y'/P'B/P'R, 720p/1080i/1080p30, or G'B'R' (R'G'B')

Sixth-Order Low-Pass Filters:  
CVBS Channel: -3 dB at 9.5-MHz

HD Channels: -3 dB at 36-MHz with 350-MHz Bypass for 1080p60 Support

Versatile Input Biasing:  
DC-Coupled with 300-mV Output Shift

AC-Coupled with Sync-Tip Clamp

Allows AC-Coupling with Biasing

Built-in 6-dB Gain (2 V/V)

+3-V to +5-V Single-Supply Operation

Rail-to-Rail Output:  
Output Swings Within 100 mV from the Rails: Allows AC or DC Output Coupling

Supports Driving Two Video Lines/Channel

Low Total Quiescent Current: 16.2 mA at 3.3 V

Disabled Supply Current Function: 0.1  $\mu$ A

Low Differential Gain/Phase: 0.15%/0.25°

RoHS-Compliant Package: TSSOP-14

## Recommended For You

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### THS3092D

Texas Instruments, Inc  
SOP-8

### THS7316DR

Texas Instruments, Inc  
SOP-8

### THS4131IDGNR

Texas Instruments, Inc  
MSOP8

### THS4011CD

Texas Instruments, Inc  
SOP

### THS7374IPW

Texas Instruments, Inc  
TSSOP14

### THS6184RHFR

Texas Instruments, Inc  
QFN

### THS4503IDGN

Texas Instruments, Inc  
MSOP8

### THS7376IPWR

Texas Instruments, Inc  
TSSOP14

### THS7314D

Texas Instruments, Inc  
SOP8

**THS4130IDGK**

Texas Instruments, Inc

MSOP8

**THS7353PW**

Texas Instruments, Inc

TSSOP20

**THS4551IRGTR**

Texas Instruments, Inc

VQFN16

**THS4281D**

Texas Instruments, Inc

SOIC-8

**THS4631D**

Texas Instruments, Inc

SOP-8

**THS3061DGN**

Texas Instruments, Inc

MSOP8