
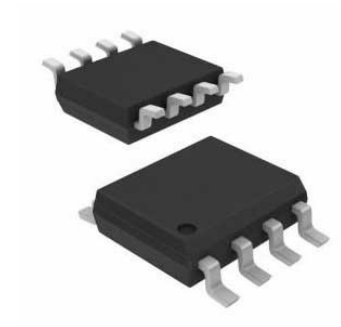


Video Amp Single $\pm 18V$ 8-Pin SOIC N Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The AD810 is a composite and HDTV-compatible, current feedback, video operational amplifier, ideal for use in systems such as multimedia, digital tape recorders, and video cameras. The 0.1 dB flatness specification at a bandwidth of 30 MHz ($G = +2$) and the differential gain and phase of 0.02% and 0.04° (NTSC) make the AD810 ideal for any broadcast quality video system. All these specifications are under load conditions of 150 Ω (one 75 Ω back terminated cable).

The AD810 is ideal for power sensitive applications such as video cameras, offering a low power supply current of 8.0 mA maximum. The disable feature reduces the power supply current to only 2.1 mA, while the amplifier is not in use, to conserve power. Furthermore, the AD810 is specified over a power supply range of ± 5 V to ± 15 V.

The AD810 works well as an ADC or DAC buffer in video systems due to its unity gain ($G = +1$) -3 dB bandwidth of 80 MHz. Because the AD810 is a transimpedance amplifier, this bandwidth can be maintained over a wide range of gains while featuring a low noise of 2.9 nV/ $\sqrt{\text{Hz}}$ for wide dynamic range applications.

Key Features

- Composite and HDTV compatible
- High speed
- Low noise
- Low power
- High performance disable function
- 100ns Turn-off time

Application

- Professional video cameras
- Multimedia systems
- NTSC-, PAL-, and SECAM-compatible systems
- Video line drivers
- ADC or DAC buffers
- DC restoration circuits

Recommended For You

AD8309ARUZ

Analog Devices, Inc
TSSOP16

AD524BDZ

Analog Devices, Inc
CDIP-16

AD8221BR

Analog Devices, Inc
SOP-8

AD8221ARZ

Analog Devices, Inc
SOP8

AD627BRZ

Analog Devices, Inc
SOP8

AD622ANZ

Analog Devices, Inc
DIP8

ADA4930-2YCPZ-R7

Analog Devices, Inc
LFCSP24

AD8034ARZ

Analog Devices, Inc
SOP8

AD8561ARZ

Analog Devices, Inc
SOP8

AD633JRZ

Analog Devices, Inc
SOP8

AD632AH

Analog Devices, Inc
CAN10

AD8422BRZ

Analog Devices, Inc
SOP8

ADCMP600BKSZ-R2

Analog Devices, Inc
SC70-5

AD620BN

Analog Devices, Inc
DIP8

AD620BR

Analog Devices, Inc
SOP