


## Video Amp Single 8-Pin SOIC Tube

<b>Manufacturer:</b>	<a href="#">Renesas Technology Corp</a>
<b>Package/Case:</b>	SOP-8
<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

The ISL4089 is complete DC-restored monolithic video amplifier sub-system. It contains a high performance video amplifier and a nulling, sample-and-hold amplifier designed to establish a programmable DC output level. When the HOLD logic input "0" is applied the DC restore function is active. The sample-and-hold amplifier loop is closed and used to null the DC offset of the video amplifier. This can occur during sync, or, at any time that a black level is expected. When the HOLD input "1" is applied, the correcting voltage is stored on the video amplifier's input coupling capacitor. This condition must be true during active video. The restored DC voltage level can be adjusted using an external reference voltage applied to the VVREF pin. The device operates from a single +5V supply and is ideal for +5V only systems when used with a sync separator, such as the EL1883. The ISL4089 is intended to directly replace the EL4089 only in certain applications. This direct replacement requires that the single positive supply is no higher than +5.5V and that no part of the clamped output goes below ground. The NC on pin 6 is not internally connected, so it can be connected to the -5V pin in existing EL4089 applications. The ISL4089 is specified for operation over -40°C to +85°C temperature range.

## Key Features

Complete video level DC-restoration system

0.03% differential gain and 0.05° differential phase accuracy

300MHz -3dB small signal bandwidth at AV = 1

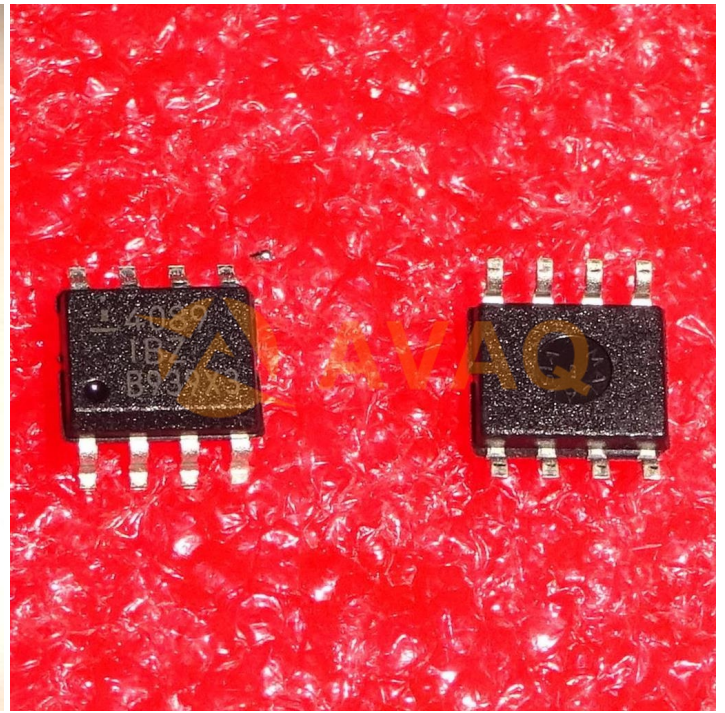
150MHz -3dB small signal bandwidth at AV = 2

300V/μs Slew Rate

0.1dB flatness to 80MHz

TTL/CMOS compatible hold signal

Pb-free plus anneal AVailable (RoHS compliant)



## Recommended For You

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### ISL55001IBZ-T7

Renesas Technology Corp

SOP8

### EL5203IS

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SOP-8

### ISL59112IEZ-T7

Renesas Technology Corp

SC70-6

### ISL59833IAZ-T7

Renesas Technology Corp

QSOP16

### ISL55001IBZ

Renesas Technology Corp

SOP-8

### EL5172ISZ

Renesas Technology Corp

SOP-8

### EL5100IS-T13

Renesas Technology Corp

SOP8

### EL5172ISZ-T13

Renesas Technology Corp

SOP8

### ISL28274FAZ

Renesas Technology Corp

SSOP-16P

### ISL59830IAZ

Renesas Technology Corp

SSOP-16

### EL5162IS

Renesas Technology Corp

SOP

### ISL28533FVZ

Renesas Technology Corp

TSSOP

### ISL1534IVEZ

Renesas Technology Corp

TSSOP20

### ISL28534FVZ-T13

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### EL5173ISZ

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