


Video Amp Single 70MHz $\pm 15V$ 30V 8-Pin SOIC N Tube

Manufacturer:	Renesas Technology Corp
Package/Case:	SOP-8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The ISL55001 is a high speed, low power, low cost monolithic operational amplifier. The ISL55001 is unity-gain stable and features a 300V/ μ s slew rate and 220MHz bandwidth while requiring only 9mA of supply current. The power supply operating range of the ISL55001 is from $\pm 15V$ down to $\pm 2.5V$. For single-supply operation, the ISL55001 operates from 30V down to 5V. The ISL55001 also features an extremely wide output voltage swing of -12.75V/+13.4V with $V_S = \pm 15V$ and $R_L = 1k\Omega$. At a gain of +1, the ISL55001 has a -3dB bandwidth of 220MHz with a phase margin of 50°. Because of its conventional voltage-feedback topology, the ISL55001 allows the use of reactive or non-linear elements in its feedback network. This versatility combined with low cost and 140mA of output-current drive makes the ISL55001 an ideal choice for price-sensitive applications requiring low power and high speed. The ISL55001 is available in an 8 Ld SO package and specified for operation over the full -40°C to +85°C temperature range.

Key Features

9mA at $V_S = \pm 15V$ Low supply current

75ns to 0.1% for a 10V step Fast settling

18 μ V/°C Average offset voltage drift

0.01% Differential gain

0.05° Differential phase



Recommended For You

ISL4089IBZ

Renesas Technology Corp

SOP-8

ISL55001IBZ-T7

Renesas Technology Corp

SOP8

EL5203IS

Renesas Technology Corp

SOP-8

ISL59112IEZ-T7

Renesas Technology Corp

SC70-6

ISL59833IAZ-T7

Renesas Technology Corp

QSOP16

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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TSSOP-14

EL5173ISZ

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