



SE121-00

4-CHANNEL OVERSAMPLED POST FILTER

The SE121-00 is a surface mountable four channel video output filter designed to provide all the filtering and buffering requirements for the Analog Devices ADV7170 and ADV7171 encoders. Use of high performance video operational amplifiers gives minimal differential gain and phase distortion with the capability of driving up to ± 2.5 V into 75 Ω loads.

Other features

- 4 independent filtered channels for RGB and Alpha or dual S-video and dual composite.
- accurate factory set gain of 0 dB (6 dB optional order SE121-60)
- 75Ω output termination resistors provided
- Flat passband response ADV encoder incorporates sinx/x correction
- high input impedance makes interfacing easy
- DC coupling eliminates tilt problems associated with AC coupling
- DC offset of encoder output (due to single rail operation) is corrected to bring blanking level near zero
- 24-pin surface mount DIL package

FILTER SPECIFICATION FOR EACH CHANNEL

End of Passband 5.5 MHz
Passband shape flat
Sampling frequency -

Amplitude ripple $\pm 0.1 \text{ dB to } 5.5 \text{ MHz}, \pm 0.2 \text{ dB to } 6 \text{ MHz}$

Gain $0 dB \pm 0.2 dB$

Group Delay ripple < 10 ns to 5.5 MHz

Start of stopband 21 MHz Stopband rejection wrt 100 kHz > 30 dB

Input impedance $100 \text{ k}\Omega$ typical

Output impedance 75Ω Supply voltage $\pm 5V$

Supply current 25 mA per rail (typical)

Aqueous Washable Yes

Package DR00134B

PACKAGE DETAIL

