



4-CHANNEL OVERSAMPLED POST FILTERS

SE120-00

The SE120-00 4-channel oversampled post filter is a surface mountable four channel video output filter designed to provide all the filtering and buffering requirements for the Fairchild/Raytheon TMC2192/93 encoder. Use of high performance video operational amplifiers gives minimal differential gain and phase distortion with the capability of driving up to $\pm 2.5V$ into 75Ω 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 SE120-60)
- 75Ω output termination resistors provided
- $\sin x/x$ correction for 27 MHz sampling plus compensation for the encoder roll-off
- 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

<i>End of Passband</i>	5.5 MHz
<i>Passband shape</i>	$\sin x/x$
<i>Sampling frequency</i>	27 MHz
<i>Amplitude ripple¹</i>	± 0.1 dB to 5.5 MHz, ± 0.2 dB to 6 MHz
<i>Gain</i>	0 dB \pm 0.2 dB
<i>Group Delay ripple</i>	< 15 ns to 5.0 MHz
<i>Start of stopband</i>	21 MHz
<i>Stopband rejection</i>	> 30 dB
<i>Input impedance</i>	100 k Ω typical
<i>Output impedance</i>	75 Ω
<i>Supply voltage</i>	$\pm 5V$
<i>Supply current</i>	43 mA per rail (typical)
<i>Aqueous Washable</i>	Yes
<i>Package</i>	DR00134C

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PACKAGE DETAIL

¹ measured against $\sin x/x$ predistortion curve

PACKAGE DETAIL

