



SE111-00

SET-TOP VIDEO POST FILTER

The SE111-00 is a surface mountable active hybrid module designed to interface a digital video encoder to 75Ω composite (CMPS), Luma (Y) and Chroma (C) outputs. Use of high performance operational amplifiers ensures minimal differential phase/gain errors and the ability to drive $\pm 2.5\text{V}$ into 75Ω loads.

Other features

- Drives two composite outputs and one Y/C output
- accurate factory set gain of 0 dB (6 dB optional - order SE111-60)
- 75Ω output termination resistors provided
- $\sin x/x$ correction for 27 MHz sampling
- 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 j-lead package

FILTER SPECIFICATION FOR EACH CHANNEL

<i>End of Passband</i>	6.0 MHz
<i>Passband shape</i>	$\sin x/x$
<i>Sampling frequency</i>	27 MHz
<i>Amplitude ripple¹</i>	± 0.5 dB to 6.0 MHz,
<i>Gain</i>	0 dB \pm 0.2 dB
<i>Group Delay ripple</i>	< 20 ns
<i>Start of stopband</i>	21 MHz
<i>Stopband rejection wrt 100 kHz</i>	> 40 dB (with $\sin x/x$)
<i>Input impedance</i>	100 kΩ typical
<i>Output impedance</i>	75Ω
<i>Supply voltage</i>	$\pm 5\text{V}$
<i>Supply current</i>	25 mA per rail (typical)
<i>Aqueous Washable</i>	Yes
<i>Package</i>	DR00144A

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

PACKAGE DETAIL

