



SE110-00

SET-TOP VIDEO POST FILTER

The SE110-00 is a surface mountable active hybrid module designed to interface Philips SAA7185 series digital video encoders 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 ± 2.5V 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 SE110-60)
- 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 surface mount 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 ± 0.2 dB
<i>Group Delay ripple</i>	< 10 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>	± 5V
<i>Supply current</i>	25 mA per rail (typical)
<i>Package</i>	DR00144A

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

PACKAGE DETAIL

