



SE131-00

VIDEO ENCODER POST FILTER

The SE131-00 is a single-in-line two channel active hybrid module designed to provide true broadcast quality filtering and buffering for the Fairchild/Raytheon TMC2490 encoder. Based on the popular Faraday AH1000 single channel filter the SE131-00 also compensates for the DC offset of the encoder output and provides a composite output by combining Y/C signals.

Other features

- 2 independent filtered channels for oversampled PAL/NTSC Composite or Y/C
- accurate factory set gain of 0 dB
- 75Ω input and output impedance
- $\sin x/x$ correction for 27 MHz sampling
- DC coupling eliminates tilt problems associated with AC coupling
- Drives two composite outputs and one Y/C output
- DC offset of encoder output (due to single rail operation) is corrected to bring blanking level near zero
- 14-pin SIL surface mount j-lead package

FILTER SPECIFICATION FOR EACH CHANNEL

<i>End of Passband</i>	5.75 MHz
<i>Passband shape</i>	$\sin x/x$
<i>Sampling frequency</i>	27 MHz
<i>Amplitude ripple¹</i>	< 0.2 dB to 5.75 MHz,
<i>Gain</i>	0 dB \pm 0.2 dB
<i>Group Delay ripple</i>	10 ns max to 5.75 MHz
<i>Start of stopband</i>	21.5 MHz
<i>Stopband rejection wrt 100 kHz</i>	40 dB min
<i>Input/Output impedance</i>	75Ω
<i>Supply voltage</i>	\pm 5V
<i>Supply current</i>	8 mA per rail (typical)
<i>Aqueous Washable</i>	Yes
<i>Package</i>	DR00152A

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

PACKAGE DETAIL

