



# SE130-00

## VIDEO ENCODER POST FILTER

The SE130-00 is a surface mountable 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 SE130-00 also compensates for the DC offset of the encoder output and provides a composite output by combining Y/C signals.

- 2 independent filtered channels for oversampled PAL/NTSC Composite or Y/C
- accurate factory set gain of 0 dB or 6 dB (order SE130-60)
- 75 $\Omega$  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
- 24-pin DIL 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 ripple<sup>1</sup></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>	75 $\Omega$
<i>Supply voltage</i>	$\pm$ 5V
<i>Supply current</i>	8 mA per rail (typical)
<i>Package</i>	DR00148A

<sup>1</sup> measured against  $\sin x/x$  predistortion curve

# PACKAGE DETAIL

