



SET-TOP BOX FILTERS

These multichannel post filters contain all the filtering and buffering required to interface a digital video encoder directly to a 75 ohm Composite and Y/C output. Most oversampled encoders do not provide Sinx/x correction and introduce significant DC offset due to operation from a single supply rail. In addition the output impedance of voltage mode DACs are subject to large tolerances which can introduce large gain variations when loaded by external filters.

The filters are Sinx/x corrected and available either with or without group delay correction. In addition they have a high input impedance which reduces significantly the gain variation of the encoder and are DC coupled with offset adjustment.

FEATURES:

- Two Composite and one Y/C output from one Y/C input.
- Group delay equalisation provided on AH1013.
- Accurate Sinx/x correction for 27 MHz sampling.
- Designed for Philips video encoders (SAA7185, SAA7199).
- Excellent Differential Gain and Phase.
- DC coupling eliminates tilt problems.

Filters available for Analog Devices, Brooktree, Harris, Raytheon etc on request.

	AH1013	AH1053
<i>Filter Shape</i>	Lowpass	Lowpass
<i>Passband Shape</i>	Sinx/x	Sinx/x
<i>Sampling Frequency</i>	27 MHz	27 MHz
<i>End Of Passband</i>	6 MHz	6 MHz
<i>Passband Amplitude Ripple</i>	± 0.5 dB from DC to 5 MHz ± 0.75 dB from 5 MHz to 7 MHz with 27 MHz Sinx/x equalisation	± 0.5 dB from DC to 5 MHz ± 0.75 dB from 5 MHz to 7 MHz with 27 MHz Sinx/x equalisation
<i>Start Of Stopband</i>	21 MHz	21 MHz
<i>Group Delay Ripple</i>	± 5 ns	+ 20 ns
<i>Group Delay Bandwidth</i>	5 MHz	5 MHz
<i>Gain</i>	0 dB ± 0.25 dB at 100 kHz	0 dB ± 0.25 dB at 100 kHz
<i>Differential Phase</i>	0.2 degrees	0.2 degrees
<i>Differential Gain</i>	0.2 %	0.2 %
<i>Supply Voltages</i>	± 5v to ± 12v	± 5v to ± 12v
<i>Impedance</i>	75 ohms	75 ohms
<i>Temperature Range</i>	0°C to 70°C	0°C to 70°C
<i>Package</i>	DR00144A	DR00144A

PACKAGE DETAIL

