



# FULLY BUFFERED HYBRID LUMINANCE FILTERS

## AH829

The AH829 has been designed to provide luminance signal filtering with accurate  $\sin x/x$  compensation for oversampled post D/A applications. Interfacing to the system is simplified with high input and low output impedance op-amp buffer stages.

<i>Filter Shape</i>	Lowpass
<i>Passband Shape</i>	$\sin x/x$
<i>Sampling Frequency</i>	27 MHz
<i>Gain</i>	- 0.2 dB $\pm$ 0.2 dB    with pin 6 open +5.8 dB $\pm$ 0.2 dB    with pin 6 gnd
<i>End Of Passband</i>	6.0 MHz
<i>Passband Amplitude Ripple</i>	0.25 dB max
<i>Loss at 11.7 MHz wrt 6.0 MHz</i>	30 dB $\pm$ 2 dB
<i>Start Of Stopband</i>	12.9 MHz
<i>Stopband Attenuation wrt 6.0 MHz</i>	40 dB min to 20 MHz 35 dB min to 50 MHz
<i>Group Delay Ripple wrt 200 kHz</i>	$\pm$ 5.0 ns max to 6.0 MHz
<i>Delay Time at 200 kHz</i>	185 ns $\pm$ 10 ns
<i>Typical Current</i>	44 mA (22 mA per rail at $\pm$ 5 v)
<i>Input Impedance</i>	10 M $\Omega$ typical
<i>Aqueous Washable</i>	Yes
<i>Package</i>	DR00032A

# PACKAGE DETAIL

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