



AH831

NEAR 601 FULLY BUFFERED UV POST FILTER

The AH831 is a tightly specified post D-to-A filter for use in colour difference applications. The filter has been optimised with an accurate factory-set gain of 6dB. Use of the latest operational amplifiers results in low current consumption and good differential phase and gain performance.

FILTER SPECIFICATION

<i>Filter Shape</i>	Lowpass
<i>Passband Shape</i>	Sinx/x
<i>Sampling Frequency</i>	6.75 MHz
<i>End Of Passband</i>	2.7 MHz
<i>Amplitude Ripple¹</i>	± 0.2 dB max to 2.7 MHz
<i>Gain</i>	6 dB $\pm$ 0.1 dB
<i>Group Delay Ripple</i>	$< \pm 15$ ns to 2.6 MHz
<i>Insertion Delay At 200 kHz</i>	818 ns $\pm$ 10 ns
<i>Start Of Stopband</i>	4.4 MHz
<i>Stopband Rejection</i>	40 dB min
<i>Input Impedance</i>	2.0 M Ω typical
<i>Output Impedance</i>	< 1 Ω to 2.7 MHz
<i>Supply Voltage</i>	± 5 V
<i>Differential Phase</i>	TBA
<i>Differential Gain</i>	TBA
<i>Supply Current</i>	20 mA per rail (typical)
<i>Package</i>	DR00035A

¹ measured against sinx/x predistortion curve

