

# HE Series Filters

## Triple channel HDTV antialiasing filters

The HE range of low cost HDTV filters with three independent channels each give near SMPTE 274M performance suitable for single pass or monitor applications.

- Three independent channels
- Small size
- Reconstruction delay included
- Low cost HDTV antialiasing
- Integer clock delays between channels
- 40 dB channel isolation

<i>Channel Description</i>	Y, R, G, B	U, V
<i>Filter Shape</i>	Lowpass	Lowpass
<i>Sampling Frequency</i>	74.25 MHz	37.125 MHz
<i>Insertion Loss at 100 kHz</i>	< 1.0 dB	< 1.0 dB
<i>End Of Passband</i>	30 MHz	15 MHz
<i>Passband Amplitude Ripple wrt 100 kHz</i>	< ± 0.2 dB	< ± 0.2 dB
<i>Loss wrt 100 kHz @ ½ S.F.<sup>1</sup></i>	12 dB ± 2 dB	12 dB ± 2 dB
<i>Start Of Stopband</i>	44.25 MHz	22.125 MHz
<i>Stopband Attenuation wrt Passband Edge</i>	> 38 dB	> 38 dB
<i>Stopband Measured To</i>	100 MHz	50 MHz
<i>Group Delay Ripple</i>	< 6 ns	< 12 ns
<i>Group Delay Bandwidth</i>	27 MHz	13.5 MHz
<i>Impedance</i>	75 ohms	75 ohms
<i>Temperature Range</i>	0 to 70 °C	0 to 70 °C
<i>Aqueous Washable</i>	No	No
<i>Package</i>	DR00301A	DR00301A

### Order Codes

HEYUVF – HD 4:2:2 SAMPLING ANTIALIASING PRE FILTER  
 HERGBF – HD 4:4:4 SAMPLING ANTIALIASING PRE FILTER  
 HEYUVS – HD 4:2:2 SAMPLING RECONSTRUCTION FILTER  
 HERGBS – HD 4:4:4 SAMPLING RECONSTRUCTION FILTER

For all above combinations channel B remains 30 MHz bandwidth, channels A and C are 30 MHz or 15 MHz dependant on sampling scheme.

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# PACKAGE DETAIL

