

## **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

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

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

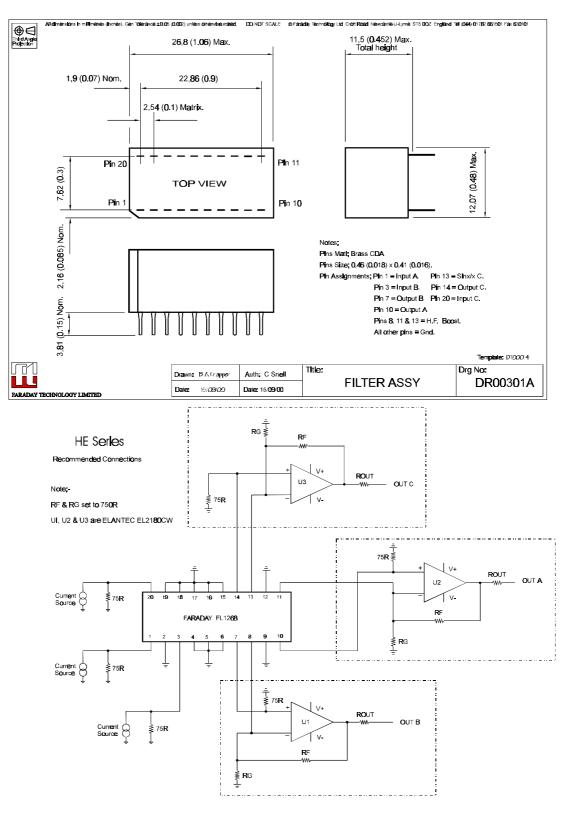
Order Codes

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 dependent on sampling scheme.

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## PACKAGE DETAIL



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