

LOW COST HDTV FILTERS

HF SERIES

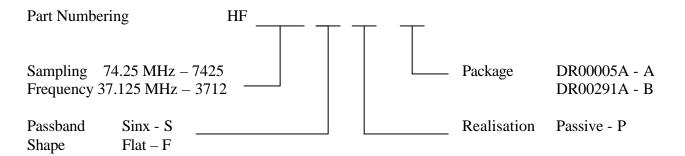
The HF range of low cost HDTV filters are available in a choice of miniature packages and give near SMPTE 274M performance suitable for single pass or monitor applications.

- Aqueous washable
- Ideal for monitor outputs
- SIL or SMD package
- Near SMPTE 274M performance
- Pre and Post, Luminance and Chrominance filters
- Integer N⁰ of clock delays between Luminance and Chrominance Filters

Filter Type	HF7425FP*	HF3712FP*	HF7425SP*	HF3712SP*
Filter Shape	Lowpass	Lowpass	Lowpass	Lowpass
Passband Shape	Flat	Flat	Sinx/x	Sinx/x
Sampling Frequency	74.25 MHz	37.125 MHz	74.25 MHz	37.125 MHz
Insertion Loss at 100 kHz	< 1.0 dB	< 1.0 dB	< 5.0 dB	< 5.0 dB
End Of Passband	29.7 MHz	14.85 MHz	29.7 MHz	14.85 MHz
Amplitude Ripple	< 0.1 dB to 29.0 MHz < 0.15 dB to 29.7 MHz	< 0.1 dB to 14.5 MHz < 0.15 dB to 14.85 MHz	< 0.2 dB ¹ to 29.0 MHz < 0.25 dB ¹ to 29.7 MHz	$< 0.2 \text{ dB}^2 \text{ to } 14.5 \text{ MHz}$ $< 0.25 \text{ dB}^2 \text{ to } 14.85 \text{ MHz}$
> 12 dB Attenuation @	37.400 MHz	18.563 MHz	37.400 MHz^{1}	$18.563 \mathrm{MHz}^2$
> 40 dB Attenuation @	44.550 MHz	22.275 MHz	44.550 MHz	22.275 MHz
Start Of Stopband	54.200 MHz	27.100 MHz	54.200 MHz	27.100 MHz
Stopband Attenuation	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Stopband Measured to	100 MHz	100 MHz	100 MHz	100 MHz
Group Delay Ripple	<±4.5 ns to 20.0 MHz <±6.4 ns to 29.7 MHz	<±8.0 ns to 10.0 MHz <±12.0 ns to 14.8 MHz	<±4.5 ns to 20.0 MHz <±6.4 ns to 29.7 MHz	<±8.0 ns to 10.0 MHz <±12.0 ns to 14.8 MHz
Delay Time at 200 kHz	Integer N ⁰ of clock delays between Luminance and Chrominance Filters		Integer N ⁰ of clock delays + reconstruction delay between Luminance and Chrominance Filters	
Impedance	75 ohms	75 ohms	75 ohms	75 ohms
Temperature Range	0°C to 70°C	0°C to 70°C	0°C to 70°C	0° C to 70° C
SMD Reflow Limitations	refer to Data Sheet Fara309			
Aqueous Washable	Yes	Yes	Yes	Yes

¹Measured against sinx/x roll off for a sampling frequency of 74.25 MHz

²Measured against sinx/x roll off for a sampling frequency of 37.125 MHz



Example part number HF7425SPA is a passive, luminance, sinx/x corrected for a S.F. of 74.25 MHz packaged in a 11 pin SIL as DR00005A

