

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

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

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

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

Part Numbering

Part Numbering		HF							
Sampling	74.25 MHz – 7425								
Frequency	37.125 MHz – 3712								
Passband	Sinx - S								
Shape	Flat – F								

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

PACKAGE DETAIL

