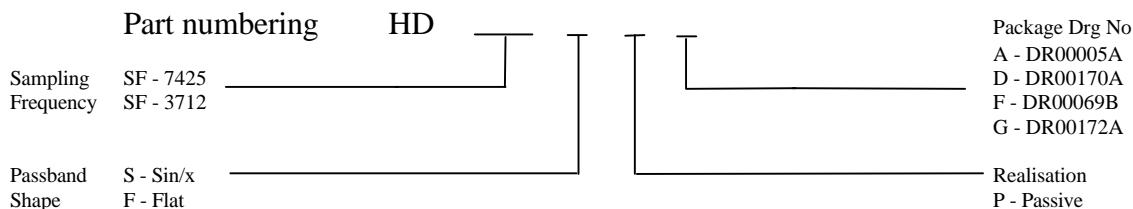


HD SERIES HDTV FILTERS

ITU 709 (1250/50)

- ITU 709 (1250/50) compliant
- pin SIL package
- Miniature space saving package
- Aqueously washable versions available
- Pre and Post Luminance and Chrominance filters
- Integer N^o of clock delays between Luma and Chroma filters

Type Number	HD7425FPA	HD7425SPA	HD3712FPA	HD3712SPA
Impedance (ohms)	75	75	75	75
Filter Shape	Lowpass	Lowpass	Lowpass	Lowpass
Passband Shape	Flat	Sinx/x	Flat	Sinx/x
Sampling Frequency (S.F)	74.25 MHz	74.25 MHz	37.125 MHz	37.125 MHz
Insertion loss at 100 kHz	< 1.5 dB	< 4.5 dB	< 1.5 dB	< 4.5dB
End of Passband	29.7 MHz	29.7 MHz	14.5 MHz	14.5 MHz
Amplitude ripple (dB) (wrt 100 kHz)	< ± 0.01 at 100 kHz < ± 0.12 at 28.2 MHz < -1.0 at 29.7 MHz	< ± 0.01 at 100 kHz < ± 0.12 at 28.2 MHz ¹ < -1.0 at 29.7 MHz ¹	< ± 0.01 at 100 kHz < ± 0.12 at 14.1 MHz < -1.0 at 14.9 MHz	< ± 0.01 at 100 kHz < ± 0.12 at 14.1 MHz ² < -1.0 at 14.9 MHz ²
Insertion delay at 200 kHz	50 ns ± 2 ns	50 ns ± 2 ns	90 ns ± 3 ns	90 ns ± 3 ns
Group delay ripple (ns) (wrt 200 kHz)	< ± 0.5 at 200 kHz < ± 2.0 at 27 MHz < ± 20 to 30 MHz	< ± 0.5 at 200 kHz < ± 2.0 at 27 MHz < ± 20 to 30 MHz	< ± 1.0 at 200 kHz < ± 4.0 to 13.5 MHz < ± 40 to 15 MHz	< ± 1.0 at 200 kHz < ± 4.0 at 13.5 MHz < ± 40 to 15 MHz
> 6 dB Frequency. (wrt loss at 100 kHz)	36 MHz	36 MHz ¹	18 MHz	18 MHz ²
> 20 dB Frequency (wrt loss at 100 kHz)	43 MHz	43 MHz	21.5 MHz	21.5 MHz
Start of stopband	45 MHz	45 MHz	22.5 MHz	22.5 MHz
Stopband attenuation (wrt loss at end of passband)	> 40 dB	> 40 dB	> 40 dB	> 40 dB



Example part number HD7425SPA is a passive, luminance sinx/x corrected for a s.f. of 74.25 MHz packaged in a 11 pin SIL package as DR00005A. Other sampling frequencies are available on request.

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

PACKAGE DETAIL

