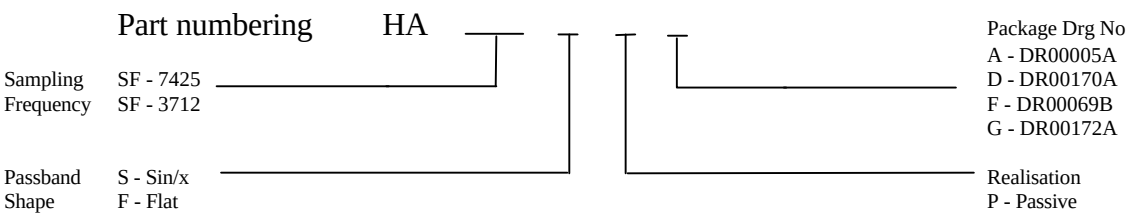
HA SERIES HDTV FILTERS

LOW COST, MINIATURE FILTERS

This range of low cost filters offers near SMPTE 274M performance in a miniature space saving package, suitable for single pass and HDTV monitor output applications.

- Near SMPTE 274M performance
- pin SIL package
- Ideal for analogue monitor outputs
- Aqueously washable
- Pre and Post Luminance and Chrominance filters
- Integer N° of clock delays between Luma and Chroma filters

Type Number	HA7425FP*	HA7425SP*	HA3712FP*	HA3712SP*
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	< 1.2 dB	< 5.5 dB	< 1.0 dB	< 5.0 dB
End of Passband	30.0 MHz	30.0 MHz	15.0 MHz	15.0 MHz
Amplitude ripple	< 0.2 dB	< 0.2 dB[1]	< 0.25 dB	< 0.25 dB[2]
Insertion delay at 200 kHz	53 ns ± 2 ns	53 ns ± 2 ns	107 ns ± 3 ns	100 ns ± 3 ns
Group delay ripple	<3 ns to 27.0 MHz	<3 ns to 27.0 MHz	<14 ns to 14.5 MHz	<14 ns to 14.5 MHz
Attenuation at $^1/_2$ S.F *(wrt loss at 100 kHz)*	> 12 dB	> 12 dB[1]	> 6 dB	> 6 dB[2]
Start of stopband	43.50 MHz	43.50 MHz	22.275 MHz	22.275 MHz
Stopband attenuation *(wrt loss at end of passband)*	> 40 dB	> 40 dB	> 40 dB	> 40 dB



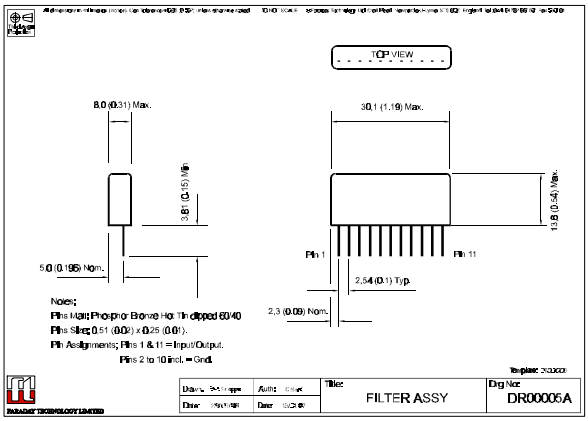
Example part number HA7425SPA is a passive, luminance sinx/x corrected for a s.f. of 74.25 MHz packaged in a 11 pin SIL package as DR00005A.

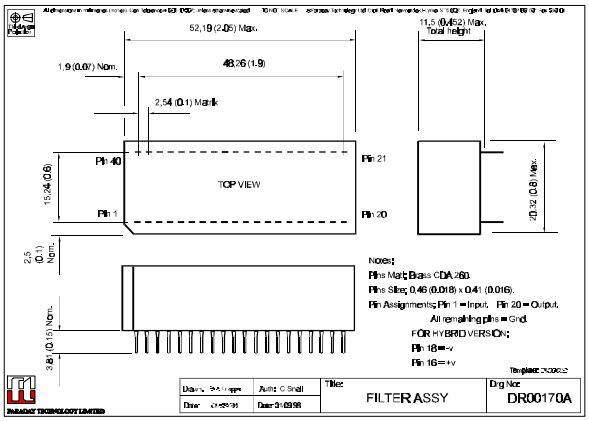
Other sampling frequencies are available on request.

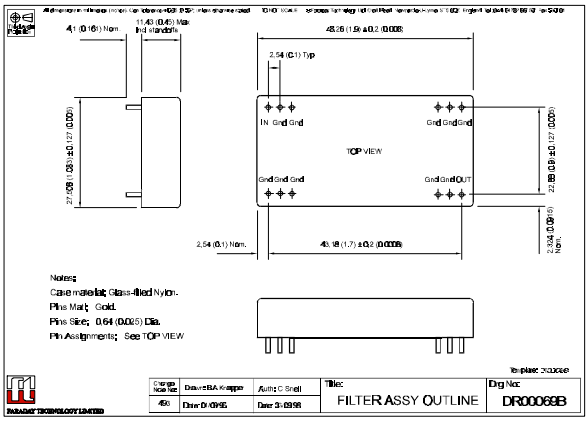
[1] Measured against sinx/x roll off for a sampling frequency of 74.25 MHz

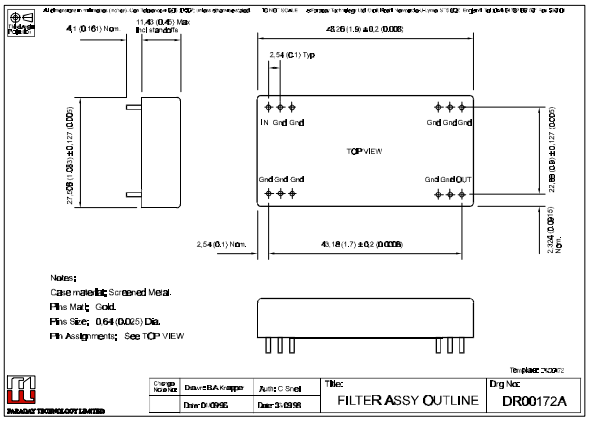
[2] Measured against sinx/x roll off for a sampling frequency of 37.125 MHz

PACKAGE DETAIL









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