LOW COST MONITOR FILTERS

TFV SERIES

These low cost luma and chroma anti-aliasing and reconstruction filters, are designed for use in 4:2:2 a-d and d-a conversion i.e. sampling rates of 13.5 MHz (Y channel) and 6.75 MHz (U and V channels). Pre-filters have a flat passband and the post-filters are shaped to provide sinx/x correction. These filters provide similar performance to the Faraday TFT range but at much reduced cost.

	LUMA		CHROMA	
Type Number	**TFV1350F**	**TFV1350S**	**TFV0675F**	**TFV0675S**
Filter Shape	Lowpass	Lowpass	Lowpass	Lowpass
Passband Shape	Flat	Sinx/x	Flat	Sinx/x
Sampling Frequency	--	13.5 MHz	--	6.75 MHz
Insertion Loss at 100 kHz	< 1.6 dB	< 5.1 dB	< 1.2 dB	< 5.1 dB
End Of Passband	5.5 MHz	5.5 MHz	2.3 MHz	2.3 MHz
Passband Amplitude Ripple	0.3 dB max	0.3 dB max[1]	0.3 dB max	0.3 dB max[1]
Loss at half S.F.	10 dB $\pm$ 2 dB	10 dB $\pm$ 2 dB[1]	> 12 dB	> 12 dB[1]
Start Of Stopband	8.2 MHz	8.2 MHz	4.1 MHz	4.1 MHz
Stopband Attenuation	39 dB min[2]	39 dB min[3]	39 dB min[2]	39 dB min[3]
Group Delay Ripple	< 21 ns	< 23 ns	40 ns max	40 ns max
Group Delay Bandwidth	5.0 MHz	5.0 MHz	2.2 MHz	2.2 MHz
Delay Time at 200 kHz	220 ns $\pm$ 5 ns	217 ns $\pm$ 5 ns	450 ns $\pm$ 5 ns	450 ns $\pm$ 5 ns
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
Aqueous Washable	Yes	Yes	Yes	Yes
Package Type	DR00008B	DR00008B	DR00005A	DR00008B

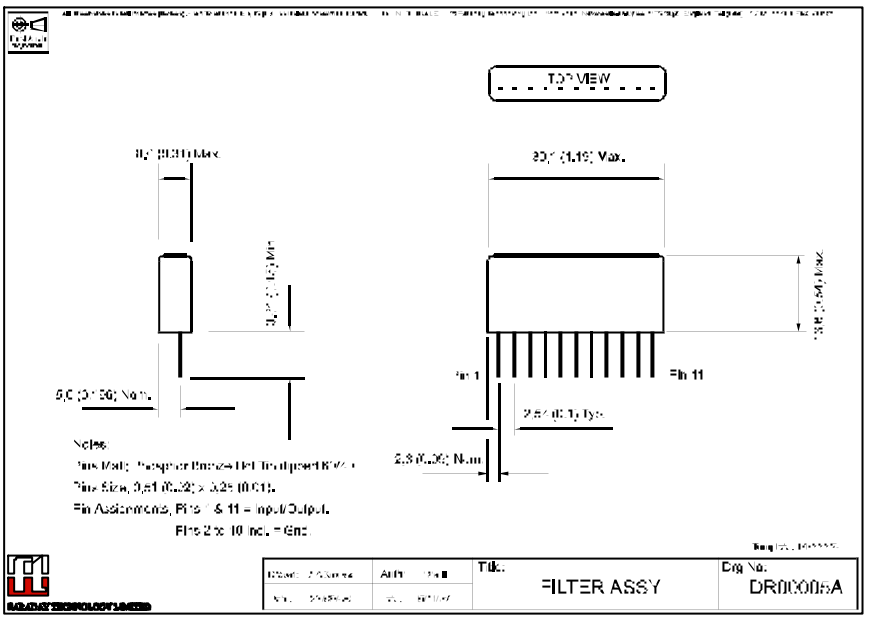
[1] measured against sinx/x roll-off

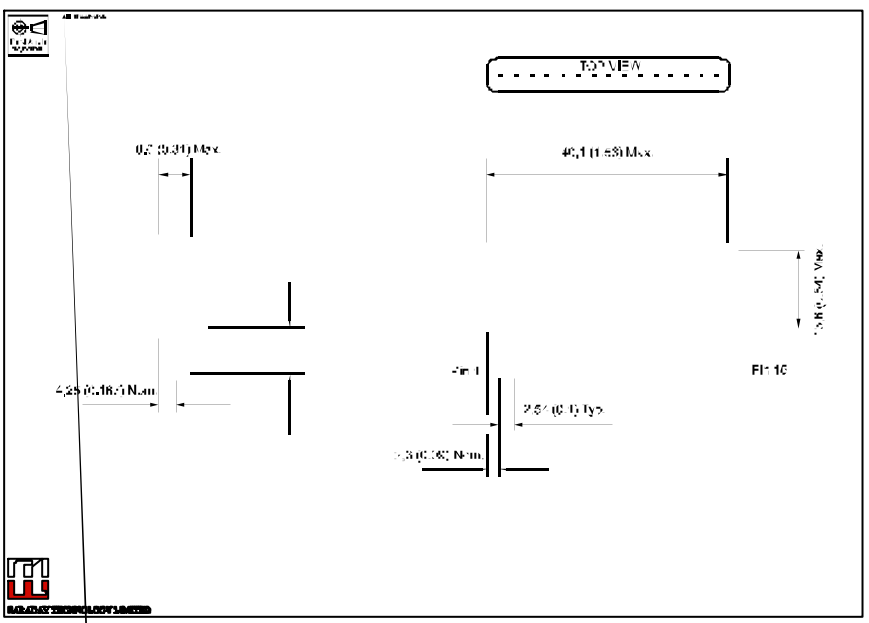
[2] measured with respect to 100 kHz

[3] measured with respect to end of passband

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PACKAGE DETAIL





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