

# CCIR REC.601 FILTERS

## SINGLE IN LINE

Designed to meet the full requirements of REC ITU-R BT601-5 Part B to suppress aliasing and to reconstruct signals in 4:2:2 YUV format A-D and D-A video interface applications operating at a sampling rate of 18.00 MHz for the luminance (Y) channel and 9.00 MHz for the Colour Difference (U and V) channels, as used in the 16 x 9 wide screen format. Using specially written software and careful attention to component layout, the very stringent parameters for pre and post filtering have been achieved in a Single In Line encapsulated module.

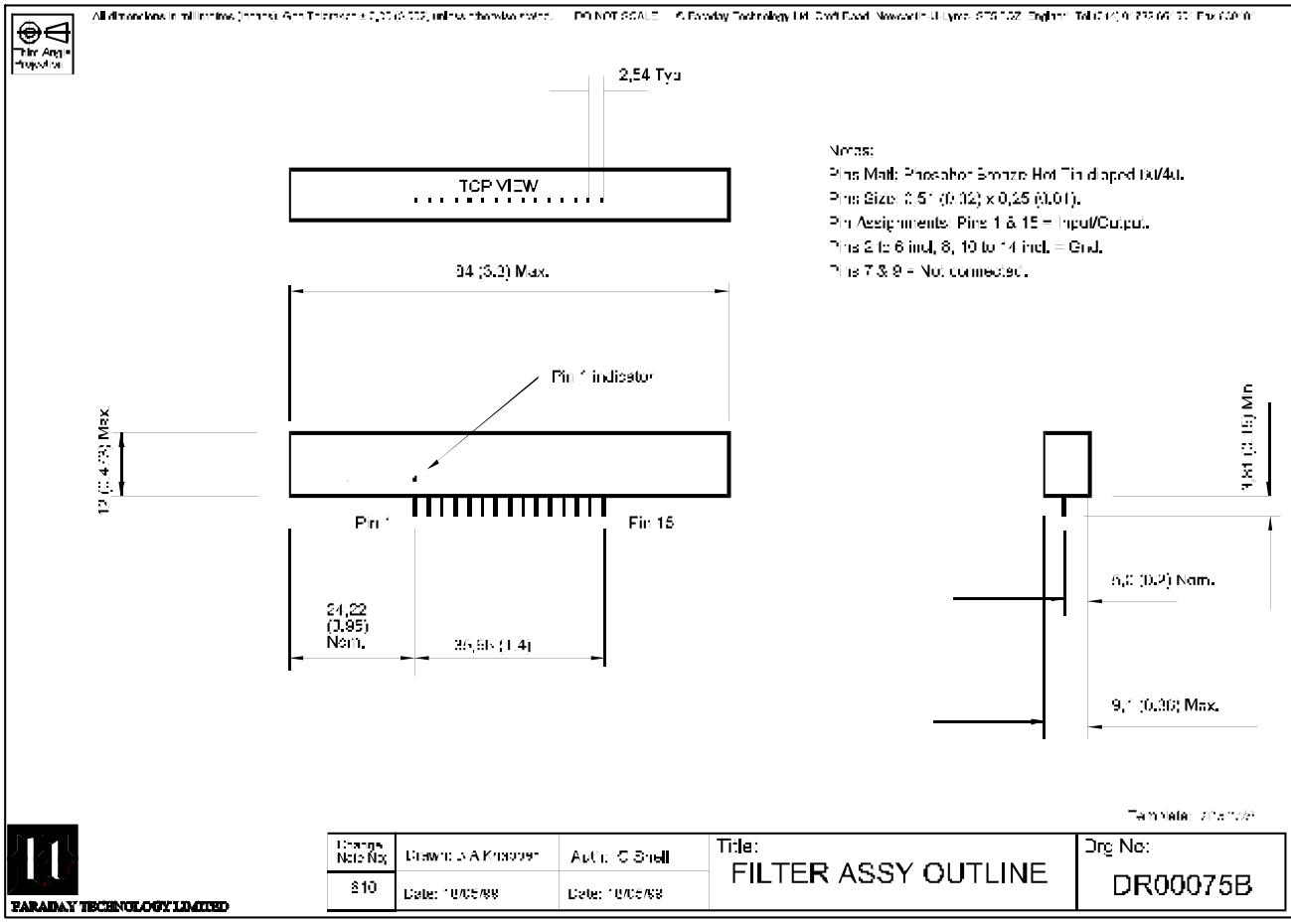
	<i>PRE FILTER</i>	<i>POST FILTER</i>
<b>LUMINANCE</b>	<b>L601F0767</b>	<b>L601S0767</b>
<i>End Of Passband</i>	7.67 MHz	5.75 MHz
<i>Passband Amplitude Ripple</i>	0.05 dB to 7.33 MHz 0.1 dB to 7.67 MHz	0.05 dB to 7.33 MHz <sup>1</sup> 0.1 dB to 7.67 MHz <sup>1</sup>
> 12 dB wrt 100 kHz at	9.00 MHz	9.00 MHz <sup>1</sup>
> 40 dB wrt 100 kHz at	10.67 MHz	10.67 MHz
<i>Group Delay Ripple wrt delay at 200 kHz</i>	± 3 ns to 7.67 MHz	± 3 ns to 7.67 MHz
<i>Insertion Loss at 100 kHz</i>	< 1.5 dB	< 4.5 dB
<i>Delay Time at 200 kHz</i>	570 ns ± 5 ns	568 ns ± 5 ns
<i>Impedance</i>	75 ohms	75 ohms
<i>Aqueous Washable</i>	No	No
<i>Package</i>	DR00075B	DR00075B

<sup>1</sup> measured against  $\sin x/x$  roll off for a 18.0 MHz sampling frequency.

<b>COLOUR DIFFERENCE</b>	<b>L601F0367</b>	<b>L601S0367</b>
<i>End Of Passband</i>	3.67 MHz	3.67 MHz
<i>Passband Amplitude Ripple</i>	0.1 dB to 3.67 MHz	0.1 dB to 3.67 MHz <sup>2</sup>
> 6 dB wrt 100 kHz at	4.5 MHz	4.5 MHz <sup>2</sup>
> 40 dB wrt 100 kHz at	5.33 MHz	5.33 MHz
<i>Group Delay Ripple wrt delay at 200 kHz</i>	± 6 ns to 3.67 MHz	± 6 ns to 3.67 MHz
<i>Insertion Loss at 100 kHz</i>	< 1.5 dB	< 4.5 dB
<i>Delay Time at 200 kHz</i>	1125 ns ± 5 ns	1096 ns ± 5 ns
<i>Impedance</i>	75 ohms	75 ohms
<i>Aqueous Washable</i>	No	No
<i>Package</i>	DR00075B	DR00075B

<sup>2</sup> measured against  $\sin x/x$  roll off for a 9.0 MHz sampling frequency.

# PACKAGE DETAIL



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