

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

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

COLOUR DIFFERENCE	L601F0367	L601S0367
<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 ²
<i>> 6 dB wrt 100 kHz at</i>	4.5 MHz	4.5 MHz ²
<i>> 40 dB wrt 100 kHz at</i>	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

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

PACKAGE DETAIL

