CCIR REC.601 FILTERS
SINGLE IN LINE

Designed to meet the full requirements of REC ITU-R BT601-5 Part A for 4:2:2 studio systems, these filters are for use in Y.U.V. format Component processing.

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.

The latest state-of-the-art network analysers are used to align the filters and to ensure the highest quality control in order to meet the specifications. This range also provides integer number of clock cycle between luminance and chrominance filters with reconstruction delay accounted for to assist in equalisation of delay between channels.

	PRE FILTER	*POST FILTER*
LUMINANCE	L601F0575	L601S0575
End Of Passband	5.75 MHz	5.75 MHz
Passband Amplitude Ripple	0.05 dB to 5.5 MHz 0.1 dB to 5.75 MHz	0.05 dB to 5.5 MHz [1] 0.1 dB to 5.75 MHz [1]
> 12 dB wrt 100 kHz at	6.75 MHz	6.75 MHz [1]
> 40 dB wrt 100 kHz at	8.0 MHz	8.0 MHz
Group Delay Ripple wrt delay at 200 kHz	$\pm$ 3 ns to 5.75 MHz	$\pm$ 3 ns to 5.75 MHz
Insertion Loss at 100 kHz	< 1.5 dB	< 4.5 dB
Delay Time at 200 kHz	760 ns $\pm$ 5 ns	758 ns $\pm$ 5 ns
Impedance	75 ohms	75 ohms
Aqueous Washable	No	No
Package	DR00075B	DR00075B

[1] measured against sinx/x roll off for a 13.5 MHz sampling frequency.

COLOUR DIFFERENCE	L601F0275	L601S0275
End Of Passband	2.75 MHz	2.75 MHz
Passband Amplitude Ripple	0.1 dB to 2.75 MHz	0.1 dB to 2.75 MHz [2]
> 6 dB wrt 100 kHz at	3.375 MHz	3.375 MHz [2]
> 40 dB wrt 100 kHz at	4.0 MHz	4.0 MHz
Group Delay Ripple wrt delay at 200 kHz	$\pm$ 6 ns to 2.75 MHz	$\pm$ 6 ns to 2.75 MHz
Insertion Loss at 100 kHz	< 1.5 dB	< 4.5 dB
Delay Time at 200 kHz	1500 ns $\pm$ 5 ns	1461 ns $\pm$ 5 ns
Impedance	75 ohms	75 ohms
Aqueous Washable	No	No
Package	DR00075B	DR00075B

[2] measured against sinx/x roll off for a 6.75 MHz sampling frequency.

PACKAGE DETAIL

All dimensions in millimetres (Inches). Gen Tolerance ± 0.05 (0.002) unless otherwise stated.   DO NOT SCALE   © Faraday Technology Ltd Croft Road Newcastle-U-Lyme ST5 0QZ England Tel (044) 01782 661501 Fax 630101

Third Angle Projection

2,54 Typ

TOP VIEW

84 (3.3) Max.

Pin 1 Indicator

12 (0.473) Max.

Pin 1   Pin 15

24,22 (0.95) Nom.

35,56 (1.4)

Notes;
Pins Matl; Phosphor Bronze Hot Tin dipped 60/40.
Pins Size; 0,51 (0.02) x 0,25 (0.01).
Pin Assignments; Pins 1 & 15 = Input/Output.
Pins 2 to 6 incl, 8, 10 to 14 incl. = Gnd.
Pins 7 & 9 = Not connected.

3,81 (0.15) Min

5,0 (0.2) Nom.

9,1 (0.36) Max.

Template: DT00075

Change Note No;	Drawn: B A Knapper	Auth: C Snell	Title:	Drg No:
610	Date: 18/05/99	Date: 18/05/99	FILTER ASSY OUTLINE	DR00075B

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