

# 601 FILTERS

## ITU-R BT APPENDIX 2 – PART B

### YUV ANTIALISING – STANDARD FOOTPRINT

ITU-R BT 601 YUV Antialiasing filters are designed to meet the full requirements of Rec. ITU-R BT. 601-5 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.

- Fully compliant with ITU-R BT601
- Industry Standard Footprint
- Tighter delay time tolerances available
- Tight passband ripple specification

Type Number	601F0767	601S0767	601F0367	601S0367
Impedance (ohms)	75	75	75	75
Filter Shape	Lowpass	Lowpass	Lowpass	Lowpass
Passband Shape	Flat	Sinx/x	Flat	Sinx/x
Sampling Frequency	18.00 MHz	18.00 MHz	9.00 MHz	9.00 MHz
Insertion loss at 100 kHz	< 1.5 dB	< 4.5 dB	< 1.5 dB	< 4.5 dB
End of Passband	7.67 MHz	7.67 MHz	3.67 MHz	3.67 MHz
Amplitude ripple (dB) wrt 100 kHz	<± 0.025 to 7.33 MHz <± 0.050 to 7.67 MHz	<± 0.025 <sup>1</sup> to 7.33 MHz <± 0.050 <sup>1</sup> to 7.67 MHz	<± 0.050 to 3.67 MHz	<± 0.050 <sup>2</sup> to 3.67 MHz
Delay time at 200 kHz	570 ± 6nS	568 ± 6nS	1115 ± 11 nS	1113 ± 11 nS
Group delay ripple wrt delay at 200 kHz	<±3nS to 7.67 MHz	<±3 nS to 7.67 MHz	<± 6 nS to 3.67 MHz <±12 nS to 4.0 MHz	<± 6 nS to 3.67 MHz <± 12 nS to 4.0 MHz
Attenuation at 1/2 S.F. wrt loss at 100 kHz	> 12 dB	> 12 dB <sup>1</sup>	> 6 dB	> 6 dB <sup>2</sup>
Start of stopband	10.67 MHz	10.67 MHz	5.33 MHz	5.33 MHz
Stopband attenuation wrt loss at end of passband	> 40 dB	> 40 dB	> 40 dB	> 40 dB
Aqueous Washable <sup>3</sup>	No	No	No	No
Package size	DR00003A	DR00003A	DR00003A	DR00003A

<sup>1</sup>Measured against sinx/x roll-off for a sampling frequency of 18.00 MHz.

<sup>2</sup>Measured against sinx/x roll-off for a sampling frequency of 9.00 MHz.

<sup>3</sup>Contact Faraday for Washable options.

# PACKAGE DETAIL

