

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 ¹ to 7.33 MHz <± 0.050 ¹ to 7.67 MHz | <± 0.050 to 3.67 MHz | <± 0.050 ² 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 ¹ | > 6 dB | > 6 dB ² |
| 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 ³ | No | No | No | No |
| Package size | DR00003A | DR00003A | DR00003A | DR00003A |

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

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

³Contact Faraday for Washable options.

PACKAGE DETAIL

