

GFG SERIES

ANTI_ALIASING FILTERS

These very small, low cost, filters are intended for use with A-D and D-A video converters where some deviation from full multicodec standards is allowed. The cut off rate is slower than recommended to reduce time domain ringing.

The filters are designed for use in systems adhering to the EBU standard for 4:2:2 A-D and D-A conversion i.e. sampling rates of 13.5 MHz for the luminance (Y) channel and 6.75 MHz for the chrominance (U and V) channels. The pre-filters have a flat passband and the post-filters are shaped to provide $\sin x/x$ correction. Filters suitable for different sampling rates or with various losses at the half sampling frequency can be supplied.

<i>Type Number</i>	LUMA		CHROMA	
	GFG1350F	GFG1350S	GFG0675F	GFG0675S
<i>Filter Shape</i>	Lowpass	Lowpass	Lowpass	Lowpass
<i>Passband Shape</i>	Flat	$\sin x/x$	Flat	$\sin x/x$
<i>Sampling Frequency</i>	13.5 MHz	13.5 MHz	6.75 MHz	6.75 MHz
<i>Insertion Loss at 100 kHz</i>	< 1.5 dB	< 4.5 dB	< 1.5 dB	< 2.5 dB
<i>End Of Passband</i>	5.2 MHz	5.2 MHz	2.2 MHz	2.2 MHz
<i>Passband Amplitude Ripple</i>	0.1 dB max	0.1 dB max	0.1 dB max	0.1 dB max
<i>Loss at half S.F.</i>	12 dB $\pm$ 2 dB	12 dB $\pm$ 2 dB	12 dB $\pm$ 2 dB	12 dB $\pm$ 2 dB
<i>Start Of Stopband</i>	8.6 MHz	8.6 MHz	4.4 MHz	4.4 MHz
<i>Stopband Attenuation</i>	40 dB min	40 dB min	40 dB min	40 dB min
<i>Delay Time at 200 kHz</i>	200 ns $\pm$ 5 ns	230 ns $\pm$ 5 ns	430 ns $\pm$ 5 ns	435 ns $\pm$ 5 ns
<i>Pulse and bar: K - rating</i>	1%	1%	4%	4%
<i>Impedance</i>	75 ohms	75 ohms	75 ohms	75 ohms
<i>Temperature Range</i>	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
<i>Aqueous Washable</i>	Yes	Yes	Yes	Yes
<i>Package Type</i>	DR00008B	DR00008B	DR00226A	DR00008B

PACKAGE DETAIL

