

FMS6417A

Selectable RGB (YUV) HD/SD Video Filter Driver with Y, C, Composite, and Modulator Outputs

Features

- Three channel video reconstruction filter
- YUV/RGB filters
- 2:1 Mux inputs for multiple RGB/YUV inputs
- Selectable 8MHz to 30MHz 6th order filters for RGB (YUV) applications
- 8MHz 6th order Y, C filters with composite summer
- Modulator output with group delay predistortion
- AC or DC coupled input, AC coupled output
- All outputs can drive AC coupled 75Ω loads and provide 6dB of gain
- Dual multiplexed inputs
- 1% differential gain with 1° differential phase
- 36dB/octave roll-off on all channels
- Pin compatible upgrade to the award winning FMS6417

Applications

- Cable set top boxes
- Satellite set top boxes
- DVD players
- HDTV
- Personal Video Recorders (PVR)
- Video On Demand (VOD)
- Media Centers

Description

The FMS6417A offers comprehensive filtering for set top box or DVD applications. This part consists of a triple 6th order filter with selectable 30MHz to 8MHz frequencies and a dual filter for filtering Y,C with a composite summer and a modulator channel with notch and group delay compensation. The modulator provides notching and group delay compensation for NTSC.

2-to-1 multiplexers are provided on the triple filters as well as provisions for auxiliary inputs to the composite channel. The triple filters are intended for either YUV or RGB signals. All channels accept AC or DC coupled ground-referenced 1V signals. The filters output 2V_{pp} signals into AC coupled terminated loads. The low-pass filters are powered by 3.3V and the modulator and outputs by 5.0V.

Ordering Information

Model	Part Number	Lead Free	Package	Container	Pack Qty.
FMS6417A	FMS6417ACH_NL	Yes	32-pin LQPF	Tray	250
FMS6417A	FMS6417ACHX_NL	Yes	32-pin LQPF	Tape and Reel	1,000

Temperature Range: 0°C to +70°C

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