

FMS6403

Triple Video Drivers w/Selectable HD/Progressive/SD/ Bypass Filters for RGB and YPbPr Signals

Features

- Three video anti-aliasing or reconstruction filters
- 2:1 Mux inputs for YPbPr and RGB inputs
- Supports D1, D2, D3 and D4 video D-connector (EIAJ CP-4120)
- Selectable 8MHz/15MHz/30MHz 6th order filters plus bypass
- Works with SD (480i), Progressive (480p) and HD (1080i/ 720p)
- AC-coupled inputs include DC restore /bias circuitry
- All outputs can drive AC or DC coupled 75Ω loads and provide either 0dB or 6dB of gain
- 0.4% differential gain, 0.22° differential phase
- Lead (Pb)-free packaging

Applications

- Progressive scan
- Cable set top boxes
- Home theaters
- Satellite set top boxes
- DVD players
- HDTV
- Personal Video Recorders (PVR)
- Video On Demand (VOD)

Description

The FMS6403 offers comprehensive filtering for TV, set top box or DVD applications. This part consists of a triple 6th order filter with selectable 30MHz, 15MHz, or 8MHz cutoff frequencies. The filters may also be bypassed so that the bandwidth is limited only by the output amplifiers.

A 2 to 1 multiplexer is provided on each filter channel. The triple filters are intended for YPbPr and RGB signals. The DC clamp levels are set according to the RGB_SEL control input. YPbPr sync tips are clamped to 250mV, 1.125V and 1.125V respectively while RGB sync tips are all clamped to 250mV. Sync clamp timing can be derived from the Y/G inputs or from the external SYNC_IN pin. The 8MHz and 15MHz filter settings support bi-level sync while the 30MHz filter setting and bypass mode support tri-level sync.

All channels nominally accept AC coupled 1Vpp signals. Selectable 0dB or 6dB gain allows the outputs to drive 1Vpp or 2Vpp signals into AC or DC coupled terminated loads with a 1Vpp input. Input signals cannot exceed 1.5Vpp and outputs cannot exceed 2.5Vpp.

Ordering Information

Model	Part Number	Lead Free	Package	Container	Pack Qty.
FMS6403	FMS6403MTC20_NL	Yes	TSSOP-20	Tube	94
FMS6403	FMS6403MTC20X_NL	Yes	TSSOP-20	Tape and Reel	2500

Temperature Range: 0°C to +70°C

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Rev. I13