FMS6143

Low Cost Three Channel 4th Order Standard Definition Video Filter Driver

Features

- Three fourth-order 8MHz (SD) filters
- Transparent input clamping
- Dual video load drive (2Vpp, 75Ω)
- AC or DC-coupled inputs
- AC or DC-coupled outputs
- DC-coupled outputs eliminate AC-coupling capacitors 5V only
- Lead Free package - SOIC-8

Applications

- Cable set top boxes
- Satellite set top boxes
- DVD players
- HDTV
- Personal video recorders (PVR)
- Video on demand (VOD)

Description

The FMS6143 Low Cost Video Filter (LCVF) is intended to replace passive LC filters and drivers with a low-cost integrated device. Three 4th order filters provide improved image quality compared to typical 2nd or 3rd order passive solutions.

The FMS6143 may be directly driven by a DC-coupled DAC output or an AC-coupled signal. Internal diode clamps and bias circuitry may be used if AC-coupled inputs are required (see applications section for details).

The outputs can drive AC or DC-coupled single (150Ω) or dual (75Ω) loads. DC-coupling the outputs removes the need for output coupling capacitors. The input DC levels will be offset approximately +280mV at the output (see applications section for details).

Ordering Information

Model	Part Number	Lead Free	Package	Container	Pack Qty
FMS6143	FMS6143CS_NL		SOIC-8	Tube	95
FMS6143	FMS6143CSX_NL		SOIC-8	Tape and Reel	2500

Temperature range for all parts: 0°C to +70°C.

Contact your local Fairchild Semiconductor distributor for additional product information