



February 2005

FMS6363

Low Cost Three Channel 6th Order High Definition Video Filter Driver

Features

- Three sixth-order 30MHz (HD) filters
- Transparent input clamping
- Single video load drive (2Vpp, 150Ω, A_V = 6dB)
- AC or DC-coupled inputs
- AC or DC-coupled outputs
- DC-coupled outputs eliminate AC-coupling capacitors
- 5V only
- Lead (Pb) Free package- SOIC-8

Applications

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

Description

The FMS6363 Low Cost Video Filter (LCVF) is intended to replace passive LC filters and drivers with a low-cost integrated device. Three 6th order filters provide improved image quality compared to typical lower order passive solutions.

The FMS6363 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) 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.
FMS6363	FMS6363CS_NL	Yes	SOIC-8	Rail	95
FMS6363	FMS6363CSX_NL	Yes	SOIC-8	Reel	2500

Temperature Range: 0°C to +70°C

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Rev. I13

