Winbond Electronics Corp.

VCD 4X RF AMP/DIGITAL SERVO & DSP

W88611P

GENERAL DESCRIPTION

W88611P is a CMOS IC developed for VCD and CD Player use. It includes a RF amplifier, tracking error amplifier, focus error amplifier, etc..., on a single chip.

FEATURES

- RF amplifier, tracking error amplifier, focus error amplifier, APC circuit, and reference amplifier included on a single chip
- On-chip RF output signal automatic gain control (AGC) and peak to peak envelop detection
- Single 5V power supply
- 32-pin PLCC package

W88631F

GENERAL DESCRIPTION

W88631F provides CD signal processing decoding functions and all servo functions needed in a three-spot CD system. This chip has a high degree of integration to reduce the number of external components required.

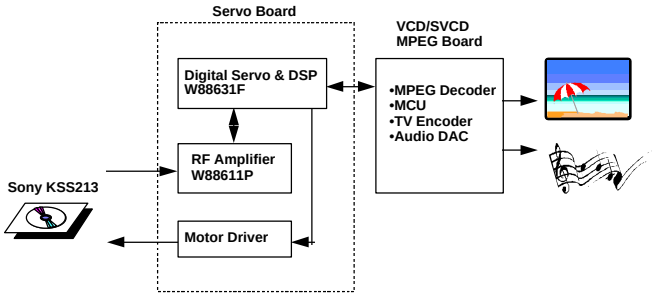
FEATURES

- 1X, 2X and up to 4X speed modes are supported
- Chip clock 33.8688 MHz
- Serial microcomputer interface
- Fully digital servo processing (focus, tracking, sledge, spindle servo)
- Fully automatic adjustment (focus / tracking gain, offset, balance)
- Wide range of adjustable servo characteristics possible
- Built-in access procedure
- Focus automatic start up
- Trackloss, Shock, Defect, Dropout detection
- Fully digital data recovery (digital equalizer, data slicer, PLL)
- Wide data capture range (+/- 1.5 channel clock, up to 4X speed)
- Wide frame jitter margin (+/- 4 frames) with built-in deinterleaved SRAM
- EFM protected demodulator
- Digital spindle motor control by CLV
- Error correction capabilities
- Subcode data processing
- Audio data processing, Concealment strategy, digital attenuation and soft mute
- Audio data output interface
  --- standard EBU digital audio output interface
  --- D/A converter interface and CD-ROM interface
- Extended general I/O port simplifies system design
- 100-pin QFP package

APPLICATIONS

- VCD player
- SVCD player
- Multimedia system

Following figure shows a typical VCD/SVCD connection diagram of W88611P/W88631F



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