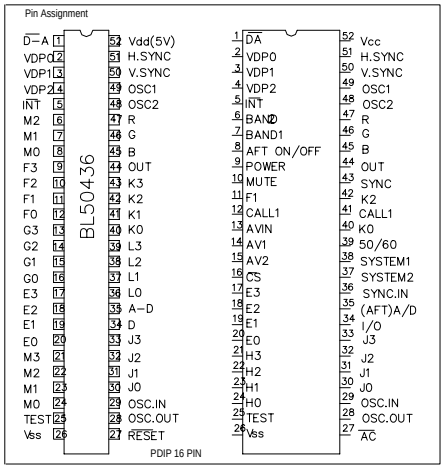
Description

50436 is a single-chip 4-bit microcomputer developed exclusively for digital tuning systems using the voltage synthesizer method. It is produced using silicon-gate COMS process and is supplied in a 52-lead plastic dual-in-line package. It has on screen display control circuit in addition to all the microcomputer circuits. It is able to receive infrared remote control signal from BL50462,and further, rich controlling functions are possessed.

Pin assignment



Features

- 5V ± 10% single power supply; a mere consumed current of 4mA
- 30sets of programs available at the utmost with automatic preset function
- Sequential channel-selecting with local keyboard; sequential or direct channel selecting with remote control
- A $1/2^{14}$resolution of tuning voltage
- On screen display function: program number, volume, brightness, contrast, sharp, treble, bass, balance, tint, video input, residual time of timing turn off, real channel number, system, and multi-aural can be displayed, altogether in 3 row, which may consist 16 characters in the utmost each. It has 64 characters and 7 colors, and 4 of the colors can be used simultaneously.
- AFT ON/OFF set-up on every set of program available
- Manual tuning regulation
- Muting
- A maximum 9-analog control(with PD6326C)
- Redundant channels skipping
- Video input conversion control
- Selective number of video input (TV/AV_1/AV_2/RGB, or TV/AV_1/AV_2, or TV/AV, or TV/only)
- Real received channel setting up
- Timing turn-off (30 min/60 min/90 min/120min)
- Selective number of wave bands (three bands/one band) and wavebands transition
- Remote controlling by signal from BL50462
- Saving received program

- Operating status i.e. volume, color saturation ratio, contrast, sharp, treble, bass balance, chrominance etc, will be saved when turn-off. Previous status is entered at next start-up.
- 4MHz operating frequency
- 52-lead dual-in-line plastic package

Application

Used as Central Controlling Unit of infrared remote-control color TV.

Application Circuit