


= Target Spec =
AK5380  
96kHz 24Bit  $\Delta\Sigma$  ADC with Single-ended Input

GENERAL DESCRIPTION

The AK5380 is a stereo A/D Converter with wide sampling rate of 4kHz~96kHz and is suitable for High-end audio system. The AK5380 achieves high accuracy and low cost by using Enhanced dual bit  $\Delta\Sigma$  techniques. The AK5380 requires no external components because the analog inputs are single-ended. The audio interface has two formats (MSB justified,  $I^2S$ ) and can correspond to many systems like music instrument and AV receiver.

FEATURES

- Stereo  $\Delta\Sigma$  ADC
- On-Chip Digital Anti-Alias Filtering
- Single-ended Input
- Digital HPF for DC-Offset cancel
- S/(N+D): 94dB @5V for 48kHz
- DR: 105dB @5V for 48kHz
- S/N: 105dB @5V for 48kHz
- Sampling Rate Ranging from 4kHz to 96kHz
- Master Clock:
  - 256fs/384fs/512fs/768fs (~48kHz)
  - 256fs/384fs (~96kHz)
- Input level: TTL/CMOS selectable
- Output format: 24bit MSB justified /  $I^2S$  selectable
- Power Supply: 3.0~5.25V (~48kHz)  
4.75~5.25V (~96kHz)
- Ta=-40~85°C
- Small 16pin TSSOP Package
- AK5353 Pin-compatible

