



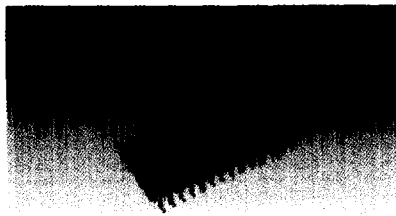
DIGITAL AUDIO and MULTIMEDIA SOUND CODECS



Device	Resolution	Dynamic Range (ADC/DAC)	THD+N (ADC/DAC)	Power Dissipation	Supply Voltage	Package
AK4501-VS	16	90dB/90dB	84dB/80dB	250mW	+4.5~5.5V	28 pin SOP
AK4502-VS	16	90dB/94dB	84dB/82dB	210mW	+5V(Analog) +3.5V(Digital)	28 pin SOP
AK4504-VF	16	90dB/90dB	85dB/87dB	60mW	+2.7~4.0V	28 pin VSOP
AK4506-VS	16	90dB/92dB	85dB/87dB	125mW	+4.5~5.5V	28 pin SOP
AK4510-VS	16	90dB/89dB	83dB/87dB	150mW	+4.5~5.5V	28 pin SOP
AK4531-VQ	16	88dB	88dB	300mW	+4.5~5.5V	44 pin QFP

AK4501

16bit Stereo $\Delta\Sigma$ ADC & DAC

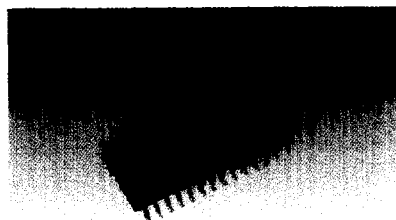


28pin SOP (7.5×18.7×2.2mm)

- ① 1 chip Stereo A/D, D/A Converter
- ② 4th Order Delta-Sigma Stereo ADC
 - 64x Over sampling
 - On-Chip Digital Anti-Alias Filtering
 - S/N: 90dB
- ③ 4th Order Delta-Sigma Stereo DAC
 - 64x Over sampling
 - On-Chip 8x interpolation Filter
 - On-Chip Analog Post Filter (SCF)
 - S/N: 90dB
- ④ High Tolerance to Clock Jitter
- ⑤ Sampling Rate of 5kHz to 50kHz
- ⑥ Single +5V Power Supply
- ⑦ Low Power Consumption: 250mW
- ⑧ Package: 28 pin SOP

AK4502

16bit Stereo $\Delta\Sigma$ ADC & DAC



28pin SOP (7.5×18.7×2.2mm)

- ① 1 chip Stereo A/D, D/A Converter
- ② 4th Order Delta-Sigma Stereo ADC
 - 64x Over sampling
 - On-Chip Digital Anti-Alias Filtering (SCF)
 - S/N: 90dB
- ③ 4th Order Delta-Sigma Stereo DAC
 - 64x Over sampling
 - On-Chip 8x interpolation Filter
 - On-Chip Analog Post Filter (SCF)
 - S/N: 94dB
- ④ High Tolerance to Clock Jitter
- ⑤ Power Supply: 5V (Analog), 3.5V (Digital)
- ⑥ Low Power Consumption: 210mW
- ⑦ Package: 28 pin SOP