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AD9040

Complete 10-Bit Monolithic Sampling A/D Converter (ADC) with On-Board Track-and-Hold and Reference

 **Obsolete**

## Replacement Parts

**Suggested Replacement Parts :**  
[AD9203](#)

**Compatibility**  
Replacement part is a functional equivalent, not pin for pin

**To find replacement products for this part:**  
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## Key Specifications

- CMOS Compatible
- Low Power: 940 mW
- 2 V p-p Analog Input
- 53 dB SNR @ 10 MHz  $A_{IN}$
- Fully Characterized Dynamic Performance
- On-Chip Track-and-Hold, Reference

## Product Details

The AD9040A is a complete 10-bit monolithic sampling analog-to-digital converter (ADC) with on-board track-and-hold and reference. The unit is designed for low cost, high performance applications and requires only an encode signal to achieve 40 MSPS

sample rates with 10-bit resolution.

Digital inputs and outputs are CMOS compatible; the analog input requires a signal of 2 V p-p amplitude. The two-step architecture used in the AD9040A is optimized to provide the best dynamic performance available while maintaining low power requirements of only 940 mW typically; maximum dissipation is 1.1 watt at 40 MSPS.

The signal-to-noise ratio (SNR), including harmonics, is 53 dB, or 8.5 ENOB, when sampling an analog input of 10.3 MHz at 40 MSPS. Competitive devices perform at less than 7.5 ENOB and require external references and larger input signals.

The AD9040A A/D converter is available as either a 28-pin plastic DIP or a 28-pin SOIC. The two models operate over a commercial temperature range of 0°C to +70°C. Contact the factory regarding availability of ceramic military temperature range devices.

## Documentation

See Also **3**

Data Sheet **2**

Obsolete Data Sheet **1**

### AD9040A: 10-Bit 40 MSPS A/D Converter Data Sheet (Rev. D)

PDF

293 kB

### AD9040: Military Data Sheet

### AD9040: 10-Bit 40 MSPS A/D Converter Obsolete Data Sheet

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304 kB

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