AD558TD/883B

Data Sheet

DAC 1-CH R-2R 8-bit 16-Pin SBCDIP Tube

Manufacturers	Analog Devices, Inc
Package/Case	CDIP-16
Product Type	Data Conversion ICs
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for AD558TD/883B or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD558 DACPORT® is a complete voltage-output 8-bit digital-to-analog converter, including output amplifier, full microprocessor interface and precision voltage reference on a single monolithic chip. No external components or trims are required to interface, with full accuracy, an 8-bit data bus to an analog system.

The performance and versatility of the DACPORT is a result of several recently-developed monolithic bipolar technologies. The complete microprocessor interface and control logic is implemented with integrated injection logic (I2 L), an extremely dense and low power logic structure that is process-compatible with linear bipolar fabrication. The internal precision voltage reference is the patented low voltage bandgap circuit which permits full-accuracy performance on a single +5 V to +15 V power supply. Thin-film silicon-chromium resistors provide the stability required for guaranteed monotonic operation over the entire operating temperature range (all grades), while recent advances in laser-wafer-trimming of these thin-film resistors permit absolute calibration at the factory to within ±1 LSB; thus no user-trims for gain or offset are required. A new circuit design provides voltage settling to ±1/2 LSB for a full-scale step in 800 ns.

The AD558 is available in four performance grades. The AD558J and K are specified for use over the 0°C to +70°C temperature range, while the AD558S and T grades are specified for -55°C to +125°C operation. The "J" and "K" grades are available either in 16-pin plastic (N) or hermetic ceramic (D) DIPS. They are also available in 20-pin JEDEC standard PLCC packages. The "S" and "T" grades are available in the 16-pin hermetic ceramic DIP package.

DACPORT is a registered trademark of Analog Devices, Inc.

Features

Complete 8-bit DAC

Voltage Output-2 Calibrated Ranges

Internal Precision Bandgap Reference

Single-Supply Operation: +5 V to +15 V

Full Microprocessor Interface

Fast: 1 μs Voltage settling to ±1/2 LSB

Low Power: 75 mW

No User Trims

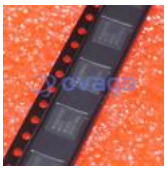
Guaranteed Monotonic Over Temperature

All Errors Specified Tmin to Tmax

Small 16-Pin DIP and 20-PIN PLCC Packages

Single Laser-Wafer-Trimmed Chip for Hybrids

Related Products



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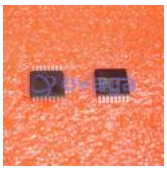
LFCSP-40



[AD7266BSUZ](#)

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TQPF-32

[AD574AJNZ](#)

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PDIP-28

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SOIC-16

[AD7938BSUZ](#)

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TQFP-32

[AD7192BRUZ-REEL](#)

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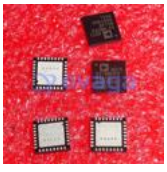
TSSOP-24



[AD7124-8BCPZ-RL7](#)

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[AD9680BCPZ-500](#)

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LFCSP-64