

ADVANCE INFORMATION

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MAXIM CMOS Quad 8-Bit D/A Converters

MAX505/MAX506

General Description

Maxim's MAX505/MAX506 each contain four 8-bit voltage output digital-to-analog converters (DACs). They include output buffer amplifiers and input logic for simple microprocessor and TTL/CMOS interfaces. 8-bit performance is achieved over the full operating temperature range without external trimming.

The MAX505 contains double-buffered logic inputs which allow all analog outputs to be simultaneously updated using one control signal. There are also four separate reference inputs so that the range of each DAC can be independently set.

The MAX506 has separate input registers for each of its four DACs. Data is transferred into an input register from a common 8-bit TTL/CMOS compatible input port. Address inputs A0 and A1 determine which DAC is loaded when \overline{WR} goes low. All DACs share a common reference input.

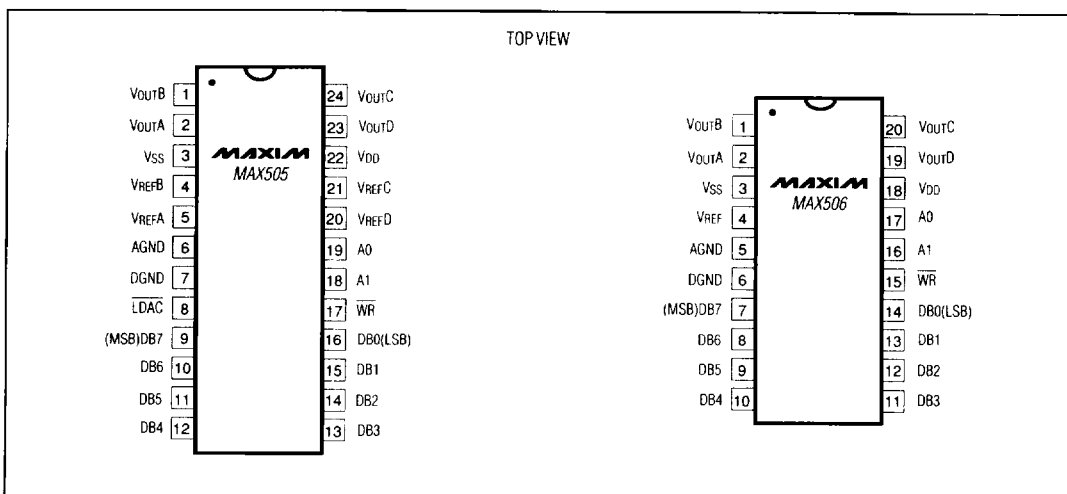
Applications

Minimum Component Count Analog Systems
Digital Offset/Gain Adjustment
Industrial Process Control
Arbitrary Function Generators
Automatic Test Equipment
Microprocessor Controlled Calibration

Features

- ◆ Buffered Voltage Output
- ◆ Double-Buffered Inputs (MAX505)
- ◆ Microprocessor and TTL/CMOS Compatible
- ◆ Operates from Single or Dual Supplies
- ◆ Requires No External Adjustments
- ◆ Outputs Swing Rail to Rail
- ◆ Available in Commercial, Extended & Military Temperature Ranges
- ◆ Available in Plastic DIP, Small Outline, and Cerdip Packages

Pin Configurations



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