

**LOW POWER LOW OFFSET VOLTAGE DUAL COMPARATORS****AZ393/393C****Description**

The AZ393/393C series consists of two independent precision voltage comparators with an offset voltage specification as low as 1mV. The input common mode voltage range of these comparators includes ground, even when operated from a single power supply voltage. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

The AZ393/393C series is designed to directly interface with TTL and CMOS.

Features

- Wide Supply Voltage Range
 - Single Supply: 2.0V to 18V
 - Dual Supplies: $\pm 1.0V$ to $\pm 9V$
- Very Low Supply Current Drain: 0.4mA
 - Independent of Supply Voltage
- Low Input Bias Current: 25nA
- Low Input Offset Current: $\pm 5nA$
- Low Input Offset Voltage: 1mV Typical
- Input Common Mode Voltage Range Includes Ground
- Differential Input Voltage Range Equals to the Power Supply Voltage
- Low Output Saturation Voltage: 250mV at 4mA
- Open Collector Output

Applications

- Battery Charger
- Cordless Telephone
- Switching Power Supply
- DC-DC Module
- PC Motherboard
- Communication Equipment

Parametric Table

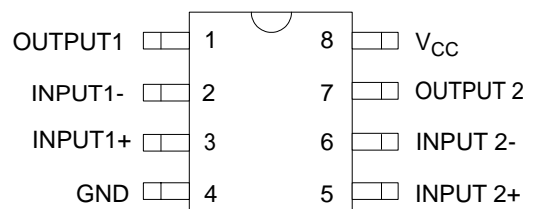
| | |
|--|-----|
| Supply Voltage (V) | 20 |
| Supply Current (mA) (18V, 15k Ω) | 0.4 |
| Differential Input Voltage (V) | 20 |
| Input offset Voltage (mV) | 1.0 |
| Input offset Current (nA) | 5.0 |
| Large Signal Response Time (ns) (5.1k Ω) | 300 |
| Output Sink Current (mA) | 16 |
| Saturation Voltage (mV) | 250 |
| Voltage Gain (V/mV) | 200 |

Benefits

- Easier to Use
- Very Competitive Price

Additional Available Materials

- Samples
- Datasheet

Pin Configuration**SOIC-8/DIP-8**

**LOW POWER LOW OFFSET VOLTAGE DUAL COMPARATORS****AZ393/393C****Ordering Information Example**

| Package | Input Offset Voltage | | Part Number | | Marking ID | | Packing Type |
|---------|----------------------|-----|-------------|-------------|------------|------------|--------------|
| | | | Tin Lead | Lead Free | Tin Lead | Lead Free | |
| SOIC-8 | Maximum Value | 5mV | AZ393M | AZ393M-E1 | AZ393M | AZ393M-E1 | Tube |
| | | 5mV | AZ393MTR | AZ393MTR-E1 | AZ393M | AZ393M-E1 | Tape & Reel |
| | | 2mV | AZ393CM | AZ393CM-E1 | 393CM | 393CM-E1 | Tube |
| | | 2mV | AZ393CMTR | AZ393CMTR- | 393CM | 393CM-E1 | Tape & Reel |
| DIP-8 | Maximum Value | 5mV | AZ393P | AZ393P-E1 | AZ393P | AZ393P-E1 | Tube |
| | | 2mV | AZ393CP | AZ393CP-E1 | AZ393CP | AZ393CP-E1 | Tube |

Detailed information please refer to the relevant datasheet.

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