

**DUAL BIPOLAR OPERATIONAL AMPLIFIERS****AZ4558C****Description**

The AZ4558C consists of two high performance operational amplifiers. The IC features high gain, low equivalent input noise voltage, high input resistance, excellent channel separation, wide range of operating voltage and internal frequency compensation.

It can work with  $\pm 18V$  maximum power supply voltage or single power supply up to 36V.

**Features**

- Internally Frequency Compensated
- Large Signal Voltage Gain: 100dB Typical
- Gain and Phase Match between Amplifiers
- Gain Bandwidth Product (at 10KHz): 5.5MHz
- Pin to Pin Compatible with MC1458

**Parametric Table**

|   |                     |
|---|---------------------|
| Supply Voltage (V)                                | $\pm 2$ to $\pm 18$ |
| Supply Current (Typ) (mA)                         | 2.5                 |
| Large Signal Voltage Gain (Typ) (dB)              | 100                 |
| CMRR (Typ) (dB)                                   | 95                  |
| Supply Voltage Rejection Ratio (Typ) (dB)         | 100                 |
| Gain Bandwidth Product @10KHz (Typ) (MHz)         | 5.5                 |
| Equivalent Input Noise (Typ) ( $nV/(\sqrt{Hz})$ ) | 10                  |
| Slew Rate (V/ $\mu s$ )                           | 2.2                 |
| Operating Temperature (Min) ( $^{\circ}C$ )       | -40                 |
| Operating Temperature (Max) ( $^{\circ}C$ )       | 85                  |

**Applications**

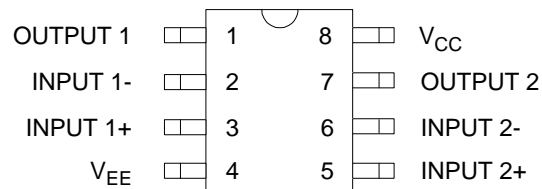
- Audio AC-3 Decoder System
- Audio Amplifier

**Benefits**

- Easier to Use
- Very Competitive Price

**Additional Available Materials**

- Samples
- Data Sheet

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

**WIDE BANDWIDTH DUAL BIPOLAR OPERATIONAL AMPLIFIERS****AZ4558C****Ordering Information Example**

| Package | Temperature Range | Part Number |               | Marking ID |             | Packing Type |
|---------|-------------------|-------------|---------------|------------|-------------|--------------|
|         |                   | Tin Lead    | Lead Free     | Tin Lead   | Lead Free   |              |
| SOIC-8  | -40 to 85°C       | AZ4558CM    | AZ4558CM-E1   | 4558CM     | 4558CM-E1   | Tube         |
|         |                   | AZ4558CMTR  | AZ4558CMTR-E1 | 4558CM     | 4558CM-E1   | Tape & Reel  |
| DIP-8   |                   | AZ4558CP    | AZ4558CP-E1   | AZ4558CP   | AZ4558CP-E1 | Tube         |

Detailed information please refer to the relevant datasheet.

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