

MCP6477

3 MHz Op Amp With EMI Filtering

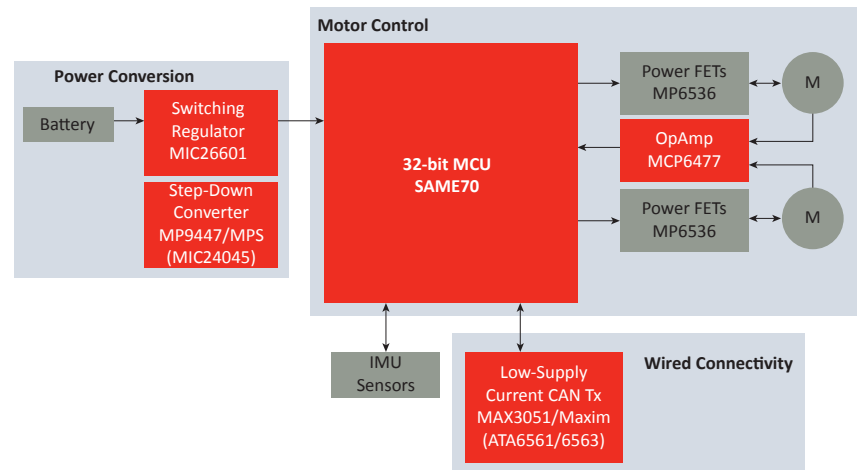
General Information

The MCP6476/6R/6U/7/9 operational amplifier operates with a single-supply voltage as low as 1.8V, while drawing low quiescent current (170 μ A, maximum per amplifier). This op amp also has low input offset voltage (± 1.6 mV, maximum), and rail-to-rail input and output operation. The device has enhanced EMI protection minimizing Electromagnetic Interference from external sources. This feature makes it well-suited for EMI-sensitive applications, such as power lines, radio stations and mobile communications.



Features

- Low quiescent current: 170 μ A (maximum)/amplifier
- Low input offset voltage: ± 1.6 mV (maximum)
- Enhanced EMI protection:
 - Electromagnetic Interference Rejection Ratio (EMIRR) at 1.8 GHz: 90 dB
- Supply voltage range: 1.8V to 5.5V
- Gain bandwidth product: 3 MHz (typical)
- Rail-to-rail input/output
- Unity gain stable
- No phase reversal
- Quick start-up time: 6 μ s (typical)
- Extended temperature range: -40°C to $+125^{\circ}\text{C}$



Applications

- Smoke detectors
- Automotive
- Battery-powered systems
- Sensor conditioning
- Battery current monitoring



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