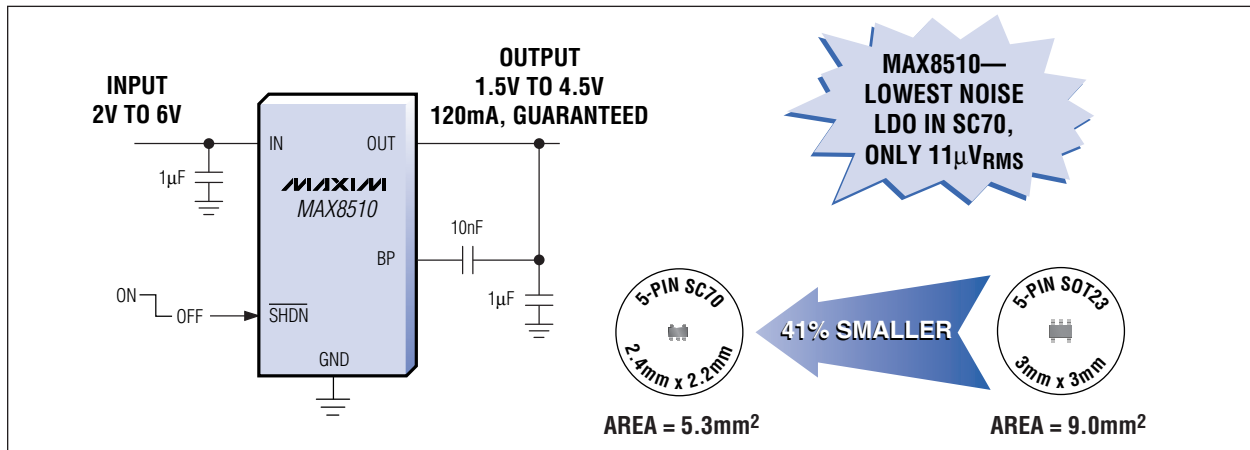


LOWEST 11 μ V_{RMS} NOISE LINEAR REGULATOR IN SC70

5.3mm² Package Is 41% Smaller than Other 120mA LDOs

The MAX8510 is the smallest, highest-performance low-dropout (LDO) linear regulator available. It comes in a SC70 package, provides 120mA output with just 120mV of dropout, and has only 11 μ V_{RMS} noise. The output is preset to save space. The entire MAX8510/MAX8511/MAX8512 family features the same low dropout, low 40 μ A quiescent supply current, and high PSRR (up to 78dB). To save space, options can adjust the output and eliminate the bypass capacitor. These ICs are intended for noise-sensitive and space-constrained applications such as cell phones, smartphones, PDAs, and wireless LANs.



- ◆ Tiny 5-Pin SC70 (Max Height = 1.1mm)
- ◆ 11 μ V_{RMS} Noise, 78dB PSRR (MAX8510)
- ◆ Guaranteed 120mA Output
- ◆ Low 120mV Dropout at 120mA
- ◆ Stable with 1 μ F Ceramic Capacitor
- ◆ \pm 1% V_{OUT} Accuracy
- ◆ Low 40 μ A Ground Current
- ◆ Thermal Overload Protection
- ◆ Excellent Load/Line Transient
- ◆ Fast 50 μ s Start-Up Time
- ◆ Priced at \$0.51*

| Part | V _{OUT} (V) | Bypass Cap | Noise (μ V _{RMS}) | Usage |
|---------|-------------------------|------------|----------------------------------|-----------------------------|
| MAX8510 | Fixed (1.5 to 4.5) | 10nF | 11 | Lowest noise |
| MAX8511 | Fixed (1.5 to 4.5) | No | 230 | Smallest, fewest components |
| MAX8512 | Adjustable (1.5 to 4.5) | No | 230 | Flexible output |

*2500-up recommended resale, FOB USA. Prices provided are for design guidance. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.



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