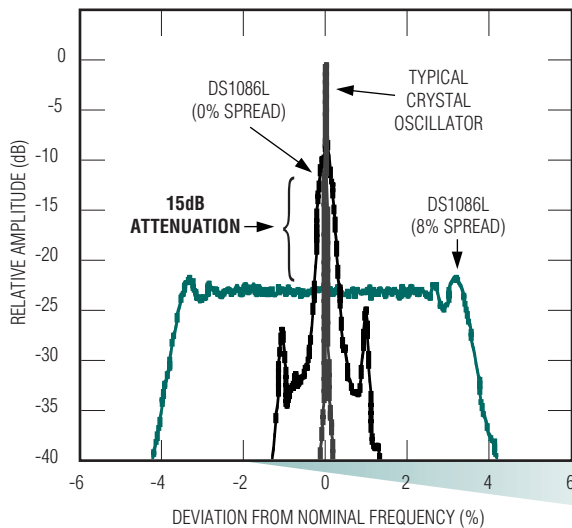


# WORLD'S SMALLEST LOW-EMI 3V ALL-SILICON CLOCK OSCILLATOR

**Simplifies or Eliminates Shielding and Filtering  
Reduces Cost and Minimizes Design Time**



**CLOCK SPECTRUM COMPARISON**



- ◆ Spread-Spectrum Clock Oscillator
- ◆ No External Components
- ◆ 2.7V to 3.6V Operation
- ◆ User-Programmable 0% to 8% Spread Settings
- ◆ Up to 23dB Reduction in Radiated Emissions (RMS Voltage) Relative to Crystal Oscillators

**ALL THIS IN A TINY  
8-PIN  $\mu$ SOP!**

## World's Only Single-Component Spread-Spectrum Oscillator

Part	Frequency Variation (%)	Frequency Range (Hz)	Voltage (V)	Spread Options (%)	Pin-Package	Price <sup>†</sup> (\$)
DS1086LU	1	4.9k to 66M	2.7 to 3.6	0, -0.5, -1, -2, -4, -8	8- $\mu$ SOP	0.90

<sup>†</sup>1000-up recommended resale, FOB USA. Prices provided are for design guidance and are for the lowest grade, commercial temperature parts. International prices will differ due to local duties, taxes, and exchange rates. Prices are subject to change. Not all packages are offered in 1k increments, and some may require minimum order quantities.



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