

Programmable Oscillators Exhibit Low Power Consumption



Offering a start-up time of 3 ms, SiTime's SiT8003, SiT8003XT, and SiT8033 programmable oscillators demonstrate typ. power consumption of <math><3.5\text{ mA}</math> in active mode and <math><10\text{ }\mu\text{A}</math> in standby mode. The devices can be programmed to operate at 1.8 V, 2.5 V, 2.8 V, or 3.3 V over frequencies from 1 MHz to 110 MHz with an rms jitter of <math><3\text{ ps}</math>. The SiT8003 and two-frequency SiT8033 offer package footprints of 2.5 mm \times 2 mm, 3.2 mm \times 2.5 mm, 5 mm \times 3.2 mm, and 7 mm \times 5 mm, and frequency tolerances of ± 25 ppm, ± 30 ppm, ± 50 ppm, and ± 100 ppm. The 3530XT-packaged SiT8003XT presents a frequency tolerance of ± 100 ppm in high-capacity SIM cards and consumer electronics. The oscillators are suitable for microprocessor, microcontroller, and serial I/O applications.

SiTime
408-328-4400, www.sitime.com [1]

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