CLOCK, FREQUENCY REFERENCE, AND OTHER REFERENCE SIGNAL GENERATOR

Abstract

Exemplary embodiments of the invention provide a reference signal generator, system and method. An exemplary apparatus to generate a harmonic reference signal includes a reference resonator, such as an LC-tank, and a frequency controller. The reference resonator generates a first reference signal having a resonant frequency, and the frequency controller maintains substantially constant a magnitude of a peak amplitude of the first reference signal and maintains substantially constant a common mode voltage level of the reference resonator. A temperature-dependent control voltage is also generated and utilized to maintain the resonant frequency substantially constant or within a predetermined variance of a calibrated or selected frequency.

Figure 3