CRYSTAL OSCILLATOR CIRCUIT AND METHOD OF OPERATION

A crystal oscillator circuit (100, 200) is described that includes a crystal resonator (220); and a voltage source (204) configured to apply a voltage step across the crystal oscillator (220) where a polarity of the voltage source (204) applied to the crystal resonator (220) is switched in response to a sign of a current passing through the crystal resonator (220) and in response thereto a self-timed energy injection waveform is provided to the crystal resonator (220).