Low-Power Low-Complexity QPSK RF Transmitter Based on Injection-Lock Technology

Abstract

The present invention shows a novel QPSK (Quadrature Phase Shift Keying) RF transmitter based on injection-lock technology. This QPSK transmitter demonstrates some good features such as low-power, low-complexity and higher bandwidth efficiency comparing to other modulation. It will benefit the wireless communication system like GSM; also it is a good candidate for Bio-Medical applications.

Figure 1.