

Abstracts

High Q VCO using an electro-acoustic device compatible with CMOS integrated circuit technology

Pilsoon Choi, Seokbong Hyun, Yunseong Eo and Kwyro Lee. "High Q VCO using an electro-acoustic device compatible with CMOS integrated circuit technology." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 913-916.

Low phase noise characteristic can be in a VCO (Voltage Controlled Oscillator) by using a high Q SAW (Surface Acoustic Wave) device. In this type of VCO, new method for obtaining both wide tuning range and low phase noise characteristic is proposed and experimentally verified. This paper also shows the feasibility of single chip VCOs using PLIC (Poly-Lithic Integrated Circuit) technology compatible with CMOS integrated circuit technology, which allows us to develop a true single chip mobile communication system.

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