

Abstracts

Fully monolithically integrated feedback voltage controlled oscillator [using PHEMTs]

A. Megej, K. Beilenhoff and H.L. Hartnagel. "Fully monolithically integrated feedback voltage controlled oscillator [using PHEMTs]." 2000 Microwave and Guided Wave Letters 10.6 (Jun. 2000 [MGWL]): 239-241.

A fully monolithically integrated voltage controlled oscillator (VCO) using feedback technique is presented here. The circuit provides oscillation within the frequency range of 6.3-7.0 GHz. The corresponding tunable relative bandwidth is 10%. The feedback topology proves to provide a good linearity of the oscillation frequency dependence versus tuning voltage. The maximal deviation of the frequency behavior from its linear fit is $\Delta f = 39$ MHz. It is shown in the following that the feedback technique can be used for broadband VCO design.

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