

Abstracts

CPW Oscillator Configuration for an Electro-Optic Modulator (Short Papers)

V. Radisic, V. Jevremovic and Z.B. Popovic. "CPW Oscillator Configuration for an Electro-Optic Modulator (Short Papers)." 1993 Transactions on Microwave Theory and Techniques 41.8 (Sep. 1993 [T-MTT] (Special Issue on Modeling and Design of Coplanar Monolithic Microwave and Millimeter-Wave Integrated Circuits)): 1645-1647.

A CPW 2 GHz 3-port MESFET oscillator was designed with an electro-optic modulator application in mind. The oscillator has a self-biased gate. The source or drain ports can be used for external injection-locking. The frequency of oscillation, as well as the output power at the fundamental and first two harmonics were analyzed using a nonlinear device model and a harmonic balance technique. Comparison with measured results on a hybrid CPW oscillator fabricated on a Duroid substrate are presented.

 [Return to main document.](#)