Abstracts

A Comparison of the Performance of Three Different Phase Locked Oscillators Fabricated at 21 GHz

J. Perez, P. Dorta and F. Sierra. "A Comparison of the Performance of Three Different Phase Locked Oscillators Fabricated at 21 GHz." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 305-308.

This paper describes the construction and fabrication of three different Phase Locked Oscillators (PLO) at 21 GHz. The first PLO consists of a direct division (analog and digital) from 21 GHz to the reference frequency. The second approach uses only one analog divider to reach 10.5 GHz and then a sampling phase detector. The final one consists of a 10.5 GHz MESFET Dielectric Resonator Oscillator (DRO) phase locked by means of a sampling phase detector and a multiplier (by two). A comparison of analysis, fabrication and performance of the three PLOs is presented.

❑ Return to main document.