

# Abstracts

## Fast Switching X and Ku Band Multi Frequency Dielectric Resonator Oscillator Using a Single GaAs FET

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*A.P.S. Khanna and R. Soohoo. "Fast Switching X and Ku Band Multi Frequency Dielectric Resonator Oscillator Using a Single GaAs FET." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. 1 [MWSYM]): 189-191.*

A novel scheme of generating fast-switchable, highly accurate and spurious-free stable signals at widely different frequencies is presented. Using a single GaAs FET oscillator circuit and switching the dielectric resonators through PIN diodes, an efficient and high performance four-switchable frequency DRO assembly has been realized. Settling times of less than 2  $\mu$ s, in which the output frequency is within  $\pm$  10 ppm of the final frequency, have been achieved.

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