Abstracts

A Frequency-Stabilized MIC Oscillator Using a Newly-Developed Dielectric Resonator

Y. Komatsu, Y. Murakami, T. Yamaguchi, T. Otobe and M. Hirabayashi. "A Frequency-Stabilized MIC Oscillator Using a Newly-Developed Dielectric Resonator." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 313-315.

A GaAs FET MIC oscillator with very high frequency stability has been developed using a newly-developed dielectric resonator. The key to designing the dielectric resonator was to make the temperature dependence of the resonance frequency linear. This characteristic was realized in a stacking-type dielectric resonator with zirconate ceramics. The obtained frequency stability of ±85 kHz in temperatures -20 to +60°C is sufficient for AM SHF TV receivers.

❑ Return to main document.