Abstracts

A 13 GHz YIG Film Tuned Oscillator for VSAT Applications (Short Papers)

Y. Mizunuma, Y. Murakami, H. Nakano, T. Ohgihara and T. Okamoto. "A 13 GHz YIG Film Tuned Oscillator for VSAT Applications (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1885-1889.

A 13 GHz tunable oscillator using YIG film grown by LPE has been developed. A very low phase noise of - 93 dBc/Hz at 10 kHz from the carrier and an output power of 11 dBm have been achieved over the entire tuning range of 500 MHz. With excellent linear tuning characteristics, this oscillator is ideal for use as a frequency-agile synthesized local oscillator in a very small aperture terminal system.

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