Abstracts

X- and Ku-Band YIG-Film Tuned Low Noise Oscillators

Y. Mizunuma, T. Ohgihara, H. Nakano, T. Okamoto, M. Kubota and Y. Murakami. "X- and Ku-Band YIG-Film Tuned Low Noise Oscillators." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 161-164.

X and Ku-band YIG film tuned oscillators (YTOs) with phase noise below -95 dBc/Hz 10 kHz from the carrier and a high output power of more than +10 dBm without the use of buffer amplifier have been developed. This paper will describe the design criteria used to realize these high performance YTOs. The features of the YTOs are excellent linear tuning, low-phase noise over a relatively wide band, and small frequency drift with temperature. These oscillators are ideal for data and video transmission systems utilizing surface microwave links as well as satellites.

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