

Abstracts

Highly Stable 35 GHz GaAs FET Oscillator

G.S. Dow, D. Sensiper and J.M. Schellenberg. "Highly Stable 35 GHz GaAs FET Oscillator." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 589-591.

A 35 GHz FET oscillator stabilized with a dielectric resonator has achieved a single sideband noise-to-carrier ratio of -87 dBc/Hz at $f_m = 25$ kHz, external Q /spl cong/ 3000, and frequency stability of 1 ppm/ $^{\circ}$ C. Using this oscillator as the LO, a compact MIC Ka-band receiver was also developed.

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