Abstracts

A low phase-noise 38-GHz HBT MMIC oscillator utilizing a novel transmission line resonator

K. Hosoya, S. Tanaka, Y. Amamiya, T. Niwa, H. Shimawaki and K. Honjo. "A low phase-noise 38-GHz HBT MMIC oscillator utilizing a novel transmission line resonator." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 47-50.

This paper reports on a low phase noise 38 GHz-band HBT MMIC oscillator employing a newly proposed transmission line resonator. The achieved phase noise of -114 dBc/Hz at 1 MHz offset is believed to be the lowest reported for millimeter-wave oscillators without a dielectric resonator.

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