

Abstracts

38 GHz push-push GaAs-HBT MMIC oscillator

A. Schott, H. Kuhnert, F. Lenk, J. Hilsenbeck, J. Wurfl and W. Heinrich. "38 GHz push-push GaAs-HBT MMIC oscillator." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 839-842 vol.2.

Two differential coplanar MMIC HBT oscillators are presented, a fixed frequency and a VCO version. They provide single-ended output at the second harmonic at 38 GHz as well as differential output at 19 GHz. The oscillators show excellent phase noise performance, the fixed-frequency type reaches -95 dBc/Hz at the fundamental frequency and -89 dBc/Hz at the second harmonic, at 100 kHz offset.

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