

Abstracts

A 50 GHz SiGe HBT push-push oscillator

F.X. Sinnesbichler, H. Geltinger and G.R. Olbrich. "A 50 GHz SiGe HBT push-push oscillator." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. 1 [MWSYM]): 9-12 vol. 1.

We present a 50 GHz push-push oscillator fabricated in thin film technology on an alumina substrate using silicon-germanium HBTs. Output power of the oscillator is -5.6 dBm with a suppression of the fundamental and the second harmonic signal of -40 dBc and -38 dBc, respectively. Measured phase noise of the oscillator is -98 dBc at an offset frequency of 1 MHz.

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