

Abstracts

Low phase noise 58 GHz SiGe HBT push-push oscillator with simultaneous 29 GHz output

F.X. Sinnesbichler, B. Hautz and G.R. Olbrich. "Low phase noise 58 GHz SiGe HBT push-push oscillator with simultaneous 29 GHz output." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 35-38.

We present hybrid SiGe HBT push-push oscillators at 58 GHz, fabricated on 5 mil alumina substrates. A second output additionally allows us to make use of the fundamental 29 GHz signal. A maximum output power of +1 dBm at 58 GHz and simultaneously of 0 dBm at 29 GHz were achieved. Phase noise at 58 GHz was measured to be -108 dBc/Hz at an offset frequency of 1 MHz.

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