

Abstracts

Push-pull frequency converter for mobile communication

A.V. Thangavelu, H.P. Moyer, M. Ghanevati, A.S. Daryoush and R. Gutierrez. "Push-pull frequency converter for mobile communication." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 661-664.

This paper demonstrates a push-pull self-oscillating mixer (SOM) for wireless communications at 900 MHz. Both up-conversion and down-conversion experiments are reported using this SOM. The conversion gain of the circuit is ± 15 dB, IP3 of -3 dBm, SFDR of 102 dB.Hz/sup 2/3/, and an average power consumption of ± 37 mW.

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