Abstracts

An efficient SOM for front-end UHF electronics

M. Ghanevati, A.V. Thangavelu, J.H. Lee, R. Gutierrez and A.S. Daryoush. "An efficient SOM for front-end UHF electronics." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1769-1772 vol.4.

This paper presents experimental results of an extremely low power consuming hybrid push-pull self-oscillating mixer (SOM) circuit at UHF band. The SOM is designed and fabricated using matched pair Si BJTs and high Q resonators. Measured phase noise of the free-running voltage controlled oscillator is -76.5 dBc/Hz at 10 KHz offset; a 20 dB upconversion gain is also measured for the mixer.

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