

Abstracts

A new mixer for sensor applications

I. Angelov, H. Zirath and J. Svedin. "A new mixer for sensor applications." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1051-1054.

A new configuration of a gate mixer associated with a dual-polarized patch antenna was experimentally investigated for the first time. A gain of 5-7 dB was obtained at local oscillator (LO) power of -17 dBm at the device terminals. The new configuration with low pumping power can significantly simplify the design of the LO sensor chain compared to the ordinary configuration which consumes 3-8 dBm per device.

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