

Abstracts

RF mixers using standard digital CMOS 0.35 μm process

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The performance of doubly-balanced active and resistive RF CMOS mixers is presented following measurements at 1.8-GHz RF frequency. The active mixer has demonstrated 10.4-dB gain, 7-dB SSB NF, -6 dBm IIP3 and consumes 9.7 mA under 3 V. The passive mixer has demonstrated 7.5-dB loss, 10-dB SSB NF and +16-dBm of input IP3.

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