

Abstracts

15 GHz wideband amplifier with 2.8 dB noise figure in SiGe bipolar technology (2001 Vol. I [MWSYM])

H. Knapp, D. Zoschg, T. Meister, K. Aufinger, S. Boguth and L. Treitinger. "15 GHz wideband amplifier with 2.8 dB noise figure in SiGe bipolar technology (2001 Vol. I [MWSYM])." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 591-594 vol.1.

We present a wideband amplifier with 12 dB gain and a 3-dB bandwidth of 15 GHz. The noise figure is 2.8 dB for frequencies up to 10 GHz and 4 dB at 15 GHz. The circuit is manufactured in an advanced SiGe bipolar technology and consumes 7.2 mA from a 3.3 V supply.

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