Abstracts

An integrated 2 GHz 500 mW bipolar amplifier

S. Weber and G. Donig. "An integrated 2 GHz 500 mW bipolar amplifier." 1997 Radio Frequency Integrated Circuits (RFIC) Symposium 97. (1997 [RFIC]): 139-142.

A low cost integrated 2 GHz 500 mW amplifier for DECT and other applications is presented. The total efficiency is 35% with a 3.3 V supply voltage and 0 dBm input signal. The chip is based on the Siemens B6HF 26 GHz-f/sub T/-technology and is to our knowledge the first commercial 500 mW 2 GHz amplifier in bipolar technology. The device also features functions which are previously not available from PA ICs including power down, power selection and supply voltage compensation.

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