Abstracts

C-band direct conversion receiver front-end using a resistive FET mixer

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A C-band direct conversion receiver front-end based on a resistive FET mixer has been developed. Resistive FET mixers, as opposed to other configurations, require only gate bias and no drain bias. Thus the baseband signal can be easily filtered from the drain terminal. The resistive FET mixer is integrated with rectangular microstrip patch antenna, yielding a compact receiver front-end. A prototype was constructed and demonstrated satisfactory demodulation of a BPSK modulated RF signal.

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