

Abstracts

Development of a low-IF receiver and a fixed wireless utility network

S. Thumaty, A. Pham and H. van Wyk. "Development of a low-IF receiver and a fixed wireless utility network." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 935-938 vol.2.

We present the design and development of a low-IF receiver and a fixed wireless utility network. This receiver is designed to achieve a dynamic range of 80 dB, a sensitivity of -105 dBm and a noise figure of 5 dB for a narrow band spread spectrum modulation scheme at 900 MHz. We demonstrate the feasibility of the low-IF receiver for low-cost implementation that alleviates the issue of 60 Hz power line in wireless electricity meter networks.

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