

Abstracts

A low-noise active receiving antenna using a SiGe HBT

*W. Duerr, W. Menzel and H. Schumacher. "A low-noise active receiving antenna using a SiGe HBT." 1997 *Microwave and Guided Wave Letters* 7.3 (Mar. 1997 [MGWL]): 63-65.*

A low-noise active receiving antenna based on a printed dipole and a Si-SiGe HBT in the 5.8 GHz band is presented. A power gain of 8.3 dB compared to the respective passive antenna and a noise figure of 1.4 dB at center frequency were achieved. To improve the antenna gain, two of these components were combined with a small array with reduced beamwidth and comparable noise figure.

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