

Abstracts

Si/SiGe HBT active integrated antenna on high resistivity silicon substrate

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The first active integrated K-band antenna on a high resistivity silicon substrate employing Si/SiGe HBTs is presented. Microstrip structures represent the resonating and radiating circuits. Large and small signal modeling was performed to compare the different methods. Several antennas were built and characterized to show the feasibility of this novel approach.

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