

Abstracts

Advances in millimeter-wave FET MMIC technology

M. Matloubian. "Advances in millimeter-wave FET MMIC technology." 1999 Radio Frequency Integrated Circuits (RFIC) Symposium 99. (1999 [RFIC]): 141-144.

There has been remarkable progress in the development of millimeter-wave FET MMICs over the last decade. Significant improvements in noise figure, gain, output power, and efficiency have been achieved at millimeter-wave frequencies. HEMT amplifiers with gain at frequencies as high as 200 GHz and fundamental HEMT oscillators at 213 GHz have been demonstrated. This paper will review recent developments of millimeter-wave FET MMICs as well as some remaining challenges.

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