

Abstracts

Millimeter-wave three-dimensional masterslice MMICS (1998 [RFIC])

*K. Nishikawa, K. Kamogawa, K. Inoue, K. Onodera, M. Hirano, T. Tokumitsu and I. Toyoda.
"Millimeter-wave three-dimensional masterslice MMICS (1998 [RFIC])." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 239-242.*

The three-dimensional (3D) masterslice MMIC technology has, even in the millimeter-wave region, the advantages of high integration levels, simple design procedures, short turn-around-time, and low fabrication cost. Fabricated V-band amplifiers achieve an 8-dB gain and a 5.3 dB noise figure in an area of 0.27 mm². A U-band single-chip downconverter is also demonstrated.

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