Abstracts

Advanced MMIC Components for Ka-Band Communications Systems - A Survey

J.-M. Dieudonne, B. Adelseck, P. Narozny and H. Dambkes. "Advanced MMIC Components for Ka-Band Communications Systems - A Survey." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 409-412.

The key MMIC circuit functions for Ka-Band communication systems have been fabricated. Low noise amplifiers, a medium power amplifier, mixers and DRO have been developed using a common 0.25 µm PMHFET technology allowing a future integration of several key components on a single chip. A voltage controlled oscillator has been realized in a GaInP/GaAs HBT technology for improvement of the phase noise performances. Low noise Schottky diode upconverter and downconverter are also available in 0.25 µm MESFET technology with burried n/sup +/ layer.

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