Abstracts

26 GHz-Band Full MMIC Transmitters and Receivers Using a Uniplanar Technique

M. Muraguchi, T. Hirota, A. Minakawa, Y. Imai, F. Ishitsuka and H. Ogawa. "26 GHz-Band Full MMIC Transmitters and Receivers Using a Uniplanar Technique." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 873-876.

26 GHz-band full MMIC receiver and transmitter package modules have been demonstrated for the first time, using a uniplanar technique. Each module, including a PLL-stabilized local oscillator, is packed into a single package that measures one cubic centimeter. The receiver module consists of seven MMICs, which has an RF-IF conversion gain of 25 dB and a noise figure of 7.5 dB. The transmitter module consists seven MMICs, which has an IF-RF conversion gain of 8 dB and an output power of 5 dBm. A novel uniplanar MMIC power amplifier that is externally connected to the transmitter module has an output power of 20 dBm.

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