

Abstracts

A compact PA MMIC module for K-band high-speed wireless systems

T. Satoh, T. Shimura, S. Ichikawa, A. Betti-Berutto, C. Poledrelli, Y. Furukawa, Y. Hasegawa, S. Kuroda and J. Fukaya. "A compact PA MMIC module for K-band high-speed wireless systems." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1333-1336.

A K-band high-power MMIC amplifier module in a low-cost metal-ceramic package has been developed to provide an easy insertion of PA MMICs into K-band high-speed wireless systems. This PA module is comprised of a driver amplifier MMIC and a power amplifier MMIC with a total gain of 30 dB and a P/sub 1 dB/ of 33.5 dBm at frequencies between 23 and 26 GHz. The total performance of this module, $G(\text{dB})/\text{spl times//spl Delta/f/f/sub 0/}$ is two times higher than previously reported works.

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