

Abstracts

A low distortion GaAs quadrature modulator IC

J. Itoh, T. Nakatsuka, K. Sato, Y. Imagawa, T. Uda, T. Yokoyama, M. Maeda and O. Ishikawa.
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A low distortion GaAs quadrature modulator IC with on-chip active 90/spl deg/ phase-shifter was fabricated by using high linearity GaAs MESFET technology for wideband wireless applications. The IC showed OIP3 of +16 dBm, CLR of -40 dBc, and IRR of -40 dBc at supply voltage of 5.0 V, dissipation current of 70 mA and carrier frequency of 600 MHz. Excellent EVM smaller than 1.0% and ACPR of 60 dBc were also obtained for 4 Mbps QPSK signal with Pout of -10 dBm.

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