

Abstracts

An advanced 2 watt high power amplifier for CDMA 900 MHz system

T.H. Kim, C.S. Kim, K.Y. Lee, J.H. Moon, J.C. Lee, J.H. Kim, B. Lee and N.Y. Kim. "An advanced 2 watt high power amplifier for CDMA 900 MHz system." 2002 MTT-S International Microwave Symposium Digest 02.1 (2002 Vol. 1 [MWSYM]): 437-440 vol.1.

In this paper, an advanced 2 watt high power amplifier (HPA) for CDMA 900 MHz system is described. The results of this HPA - the linear gain of 30 dB, the gain flatness of 0.27 dB at the desired frequency range (895 MHz - 910 MHz), the input return loss of 18 dB, and the output return loss of 33 dB are obtained. The output power of 39.74 dBm is measured at 0.42 dB gain compression. The back-off technique (BOT) and the pre-distortion technique (PDT) applied to improve the linearity of HPA. The improvement as 7.25 dB of Adjacent Channel Power Ratio (ACPR) is obtained by PDT.

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