Abstracts

A 5 to 27 GHz MMIC power amplifier

Kye-Ik Jeon, Jae-Hak Lee, Seung-Won Paek, Dong-Wook Kim, Won-Sang Lee, Chae-Rok Lim, Ho-Young Cha, Hyung-Kyu Choi and Ki-Woong Chung. "A 5 to 27 GHz MMIC power amplifier." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 541-544.

A record of wideband 5 to 27 GHz power amplifier is achieved with 20 dB gain and 21 dBm output power in two stage monolithic form based on LGCIT's 0.25 /spl mu/m PHEMT process. In design, we use a lossy matching technique to obtain a flat gain characteristic and use Cripps' matching technique to obtain a flat output power characteristic. The chip size is compact 3.1 mm/spl times/1.2 mm. We present how to realize the wideband output, input and interstage matching networks.

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