Abstracts

Push-pull power amplifier integrated with quasi-Yagi antenna for power combining and harmonic tuning

C.Y. Hang, W.R. Deal, Y. Qian and T. Itoh. "Push-pull power amplifier integrated with quasi-Yagi antenna for power combining and harmonic tuning." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 533-536.

In this paper, a C-band active integrated antenna push-pull power amplifier is presented. The circuit utilizes a uniplanar quasi-Yagi antenna with corrugated ground plane for both out-of-phase power combining and second harmonic tuning. This novel structure results in a compact and high-efficiency power amplifier design with automatic second harmonic suppression. At an operating frequency of 4.15 GHz, a maximum measured PAE of 60.9% at an output power of 28.2 dBm has been achieved.

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