

## A power amplifier module with harmonics suppression for digital mobile communication

---

*H. Kayano, S. Obayashi, T. Maeda and Y. Suzuki. "A power amplifier module with harmonics suppression for digital mobile communication." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 743-746.*

A 1.9 GHz miniaturized power amplifier module with a single low voltage supply of 3.0 V, which was able to suppress second and third harmonics outputs, was developed. The volume of the module is 0.039 cc (3.4/spl times/5.8/spl times/2.0 mm). Good RF performance (adjacent channel leakage power of -55.5 dBc in the 600 kHz offset band, second harmonic power of -45.0 dBc, and third harmonic power of -46.2 dBc) was observed during operation at the desired maximum output power of 19.8 dBm. This module makes it possible to produce an RF transmission section without an external filter, i.e. one having a small volume and a thin structure.

 [Return to main document.](#)