

Abstracts

High-Efficiency 5-Watt Power Amplifier with Harmonic Tuning

B. Kopp and D.D. Heston. "High-Efficiency 5-Watt Power Amplifier with Harmonic Tuning." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 839-842.

An X-band power amplifier using harmonic tuning has demonstrated 36 percent power-added efficiency with 5 watts output power and 6.0-dB gain at 10 GHz. The key to this design is determining and matching the optimum load impedance for power-added efficiency at the first two harmonics.

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