

Abstracts

High efficiency 11 watt octave S/C-band PHEMT MMIC power amplifier

J.J. Komiak, S.C. Wang and T.J. Rogers. "High efficiency 11 watt octave S/C-band PHEMT MMIC power amplifier." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1421-1424.

Design and performance of 0.25 μm double fully selective recess PHEMT power amplifiers that have established new benchmarks for octave band power and efficiency are reported. The amplifiers tested from two lots, ten wafers total, average 11 Watts at 42% PAE with 17 dB power gain from 3 to 6 GHz, with peak performance of 17 Watts at 54.5% PAE and yields of 49.9%.

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