Abstracts

A Highly-Efficient 7-Watt 16 GHz Monolithic Pseudomorphic HEMT Amplifier (1993 Vol. I [MWSYM])

H.Q. Tserng and P. Saunier. "A Highly-Efficient 7-Watt 16 GHz Monolithic Pseudomorphic HEMT Amplifier (1993 Vol. I [MWSYM])." 1993 MTT-S International Microwave Symposium Digest 93.1 (1993 Vol. I [MWSYM]): 87-90.

A record cw output power of 7-W with 4.5-dB gain and 30.8% power-added efficiency was achieved with a monolithic, single-stage, 0.25 µm x 12-mm AlGaAs/InGaAs pseudomorphic HEMT amplifier at 16.3 GHz. At 5-W output, the power-added efficiency was 35% with 6-dB power gain. The chip size is 3-mm x 3.5-mm.

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