

Abstracts

A compact 6 to 18 GHz power amplifier module with 10 W output power

A.R. Barnes, M.T. Moore, M.B. Allenson and R.G. Davis. "A compact 6 to 18 GHz power amplifier module with 10 W output power." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 959-962 vol.3.

A state of art 6 to 18 GHz power amplifier module, combining two custom designed MMIC power amplifiers, has been fabricated and tested. Measured results show that the module is capable of delivering an output power of 10 W with 15 dB gain. A second iteration power amplifier MMIC design is also described with improved output power capability. By power combining 4 of these amplifiers a module, output power in excess of 25 W is expected, thus making Travelling Wave Tube Amplifier (TWTA) replacement a real possibility.

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