Abstracts

An All-Transistor, 1-Kilowatt, High-Gain, UHF Power Amplifier

R.L. Bailey, W.P. Bennett, L.F. Heckman and I.E. Martin. "An All-Transistor, 1-Kilowatt, High-Gain, UHF Power Amplifier." 1969 G-MTT International Microwave Symposium Digest of Technical Papers 69.1 (1969 [MWSYM]): 149-153.

An all-transistor power amplifier which delivers a cw power output of 1 kilowatt at 400 MHz has been designed and fabricated. In this design approach, a number of discrete transistors are connrected in parallel to form a power module, and the outputs of a quantity of modules are then combined to achieve the desired total output power. The discrete transistor used in the amplifier is the RCA-2N5016 overlay type. When operated as a single device in an optimum 400-MHz amplifier circuit, this transistor produces a power output of 15 to 18 watts for a power input of 5 to 6 watts.

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