

Abstracts

A 7 Watt C-Band FET Amplifier Using Serial Power Combining Techniques

P.T. Ho. "A 7 Watt C-Band FET Amplifier Using Serial Power Combining Techniques." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 142-144.

This paper describes the development of a 7 watt FET amplifier operated in the satellite communication band (3.7 GHz to 4.2 GHz) using serial power combining techniques. This three-stage MIC power amplifier provides 16.6 dB power gain, 33.1% power added efficiency, and over 500 MHz 1 dB bandwidth. The FET power amplifier features good efficiency, low noise figure, and excellent linearity. It is an ideal solid state replacement for the traveling wave tube amplifier in future communication systems.

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