

2.5 W Amplifier for 11 GHz 1800 FDM Channels System

E. Cesani, G. Corbetta and M. Molinari. "2.5 W Amplifier for 11 GHz 1800 FDM Channels System." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 140-143.

This paper describes the design and development of an 11 GHz amplifier, suitable for FDM signals and using a divider-amplifier-multiplier chain. The overall power amplifier in the 10.7-11.7 GHz bandwidth provides a 32 dB gain, a typical 5.7% efficiency and a 2.5 W power output with expected reliability exceeding 200,000 hours. This amplifier not only has better performances than the well-known Impatt solution, but it is also competitive with FET amplifiers now available on the market.

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