

Abstracts

A Solid-State 2-10 GHz 1 Watt TWT Replacement Amplifier

A.M. Pavio, D.L. Allen, S.D. Thompson and S.J. Goldman. "A Solid-State 2-10 GHz 1 Watt TWT Replacement Amplifier." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 221-223.

The design and performance of a solid-state TWT replacement amplifier for the 2-10 GHz frequency range will be presented with special emphasis on broadband matching and serrodyne techniques. The 55 dB gain GaAs FET amplifier employs resistive equalization, matching networks constructed on high permittivity substrates, and planar SSB mixer technology, in order to achieve its 1 watt power output and serrodyne performance.

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