

Abstracts

MM-Wave Power Amplifiers

M.I. Iopin, B.A. Belyavsky, K.G. Simonov and V.A. Cherepenin. "MM-Wave Power Amplifiers." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1321-1322.

The report displays the advantages of amplifying TWT-chains in the 8 mm - wavelength range based on power output "transparent" TWT, packetized in permanent magnets for providing power levels of tens of kW. To obtain pulsed power levels of hundreds of kW to units of MW the hybrid "orotron-TWT" type design-based microwave device version is represented. First experimental results are given.

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