

Abstracts

High Power X-Band Ferrite Frequency Doubler

L. Dubrowsky, D. Buck, A. Kern and D. Schubert. "High Power X-Band Ferrite Frequency Doubler." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]): 382-384.

This paper describes the development and optimization of an X to K-band frequency doubler. A conversion loss of 3.45 dB was achieved with an input power of 20 kW peak, 12 W average. Efficiency and average power output exceeded previously reported results. The power saturation mechanism is attributed to fundamental processes in the uniform precession mode rather than to spin waves.

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